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17 JUL 1

STANDARD I.

ADDITION.

1

(a)	(b)	(c)	(d)
305	982	934	907
29	421	916	89
18	602	957	873
108	886	30	986

2

(a)	(b)	(c)	(d)
42	141	436	941
130	23	10	473
74	264	273	964
214	77	182	422

3

(a)	(b)	(c)	(d)
237	26	427	243
64	141	938	346
427	37	527	52
74	103	963	71

4

(a)	(b)	(c)	(d)
743	942	13	672
924	681	647	41
968	936	243	324
165	278	907	764

5 Add together,—seven hundred and one; ninety-eight; four hundred; seven hundred and thirty-eight.

6

(a)	(b)	(c)	(d)
137	32	837	472
63	143	69	426
28	67	54	947
317	284	125	82
59	204	320	928

7

(a)	(b)	(c)	(d)
341	926	342	416
246	432	27	28
227	78	34	947
204	802	120	90
306	22	540	626

8

(a)	(b)	(c)	(d)
923	402	91	724
42	49	167	638
637	128	45	944
964	637	627	27
36	306	313	467

9

(a)	(b)	(c)	(d)
926	542	904	427
37	631	27	938
567	52	248	975
27	137	36	36
748	61	388	325

10 Add together,—eight hundred and ninety; nineteen; seven hundred and three; forty-five; two hundred and sixty-two.

	(a)	(b)	(c)	(d)
11	798	1000	868	622
	47	95	98	919
	919	818	910	79
	87	367	1000	68
	95	566	888	285

	(a)	(b)	(c)	(d)
12	857	407	913	873
	86	98	498	89
	1000	769	92	916
	876	699	559	256

	(a)	(b)	(c)	(d)
13	98	86	679	89
	1000	949	591	989
	842	874	1000	493
	96	98	49	1000
	314	875	572	248

	(a)	(b)	(c)	(d)
14	713	908	398	923
	398	79	809	1000
	1000	1000	78	809
	98	887	959	98
	312	727	584	889

15 Find the sum of,—four hundred and fifty-nine; eighty; one thousand; five hundred and three; seven hundred and ninety-five.

	(a)	(b)	(c)	(d)
16	879	797	1000	796
	98	1000	86	88
	1000	897	968	895
	976	86	496	539
	279	731	250	113

	(a)	(b)	(c)	(d)
17	1000	796	919	708
	97	95	1000	99
	987	998	790	936
	898	807	807	1000
	529	428	490	669

	(a)	(b)	(c)	(d)
18	987	1000	819	914
	716	89	98	98
	69	719	786	879
	348	89	99	913
	735	624	422	311

	(a)	(b)	(c)	(d)
19	798	1000	797	599
	819	79	807	880
	900	907	93	78
	88	378	319	799
	915	643	55	858

20 Find the sum of,—seven hundred and thirteen; ninety-five; one hundred and nine; one thousand; three hundred and seven.

21

(a)	(b)	(c)	(d)
398	996	472	864
907	708	63	27
89	95	754	854
975	986	186	728
737	934	453	391

22

(a)	(b)	(c)	(d)
513	41	982	678
72	676	376	224
164	82	41	760
897	567	819	36
560	607	384	22

23

(a)	(b)	(c)	(d)
729	505	61	478
634	68	564	346
72	493	583	28
481	274	76	191
957	461	238	965

24

(a)	(b)	(c)	(d)
973	578	922	186
464	36	88	279
78	879	999	56
479	830	555	987
410	684	309	302

25 Add together,—one thousand; ninety-three; seven hundred and nine; fifty-eight; one hundred and ninety-three.

	(a)	(b)	(c)	(d)
26	2525	9265	567	1426
	256	47	1428	9378
	1462	9413	6370	94
	1628	641	36	2274
	439	1056	7602	878

	(a)	(b)	(c)	(d)
27	6274	7218	2423	827
	8013	8421	6825	4105
	672	3765	747	204
	4136	741	283	9670
	9430	5056	9029	676

	(a)	(b)	(c)	(d)
28	3435	5376	9136	6257
	2987	5428	4827	3864
	46	627	191	9537
	520	4280	5467	1682
	6072	9319	414	72

	(a)	(b)	(c)	(d)
29	809	7630	964	4102
	2642	579	6291	9976
	976	6782	488	39
	38	65	72	9684
	163	4053	9196	6404

30 Add together,—five hundred and twenty-three; eighty-nine; four hundred and ninety-six; eight hundred and thirty; three hundred and four.

31

(a)	(b)	(c)	(d)
8241	5286	4123	6716
6376	5342	8014	3241
8824	2794	678	563
3567	567	3927	7402
92	5066	3680	8278

32

(a)	(b)	(c)	(d)
7623	3428	3328	9537
4401	7127	1430	2814
76	83	76	27
276	4641	854	4684
4635	8023	6616	939

33

(a)	(b)	(c)	(d)
3402	8279	1437	9462
4696	3328	2874	536
27	1413	350	567
9436	76	9679	9231
8703	9207	160	3434

34

(a)	(b)	(c)	(d)
1762	9847	6143	567
9426	3609	76	4023
89	26	8173	674
754	9084	64	1643
5070	4562	764	4416

35 Add together,—eight hundred and ninety-seven; nine hundred and nineteen; one thousand; eighty-nine; eight hundred and twenty-three.

36

(a)	(b)	(c)	(d)
8324	259	9153	476
74	314	86	24
304	9046	3427	3128
3413	37	9428	462
918	9534	3261	6144

37

(a)	(b)	(c)	(d)
787	9375	401	123
42	682	4027	50
4237	41	39	8149
614	789	864	206
6175	7277	9197	9473

38

(a)	(b)	(c)	(d)
365	6427	426	3682
4263	368	75	497
654	241	9283	5064
28	17	74	838
5302	5269	5146	847

39

(a)	(b)	(c)	(d)
5753	362	609	73
6742	47	473	562
74	8642	6002	14
256	736	47	8628
84	447	304	91
214	694	8020	4305

40 Add together,—eighty-five; seven hundred and ninety-eight; nine hundred and fifteen; eight hundred and nine; five hundred and forty-four.

41

(a)	(b)	(c)	(d)
235	416	936	537
8642	7284	27	86
137	13	3092	427
46	642	364	6412
5980	3652	9604	5598

42

(a)	(b)	(c)	(d)
467	365	188	7419
8891	4301	77	79
537	671	695	1740
6041	448	4026	538
175	4530	6319	944

43

(a)	(b)	(c)	(d)
682	7164	8254	421
9736	273	127	5273
427	69	36	641
24	473	919	27
8204	9023	3868	8750

44

(a)	(b)	(c)	(d)
425	9362	536	274
37	413	7789	3625
9284	76	74	48
198	284	760	782
7320	8020	4523	9573

45 Add together,—eighty-two; nine hundred and seventeen; one thousand; eighty-three; eight hundred and nine.

46

(a)	(b)	(c)	(d)
372	4627	410	537
4137	143	6903	4412
164	62	642	1413
26	237	17	87
8721	5048	6330	9851

47

(a)	(b)	(c)	(d)
548	1379	8248	472
9372	9468	9679	8864
641	42	736	528
72	9625	42	94
9789	736	998	7306

48

(a)	(b)	(c)	(d)
365	537	7172	7856
9298	8609	419	642
904	447	376	374
73	28	48	27
7533	4681	9240	6574

49

(a)	(b)	(c)	(d)
4565	6284	284	6037
937	7137	3784	602
64	64	7297	84
287	863	64	8736
5102	234	74	887

50 Find the sum of,—eight hundred and eighty; nineteen; one thousand; three hundred and ninety-nine; five hundred and sixty-six.

51

(a)	(b)	(c)	(d)
437	8641	5678	6321
7541	279	420	3417
73	5364	93	389
4654	67	5664	64
923	653	368	6137

52

(a)	(b)	(c)	(d)
7364	9642	8437	5623
2289	573	26	410
14	674	4478	3099
760	82	91	673
923	3052	632	339

53

(a)	(b)	(c)	(d)
4287	8436	2156	4237
365	725	78	9157
57	48	9436	48
7738	936	789	816
784	7055	943	773

54

(a)	(b)	(c)	(d)
273	736	1567	848
6029	4275	9236	9374
5407	7841	9417	26
74	573	62	9413
972	85	546	42

55 Find the sum of,—eight hundred and seven; ninety-eight; one thousand; eight hundred and ninety-six; eight hundred and nine.

SUBTRACTION.

		(a)	(b)	(c)	(d)
1	From	896	798	948	759
	Take	553	554	821	128

		(a)	(b)	(c)	(d)
2		689	978	916	738
		157	437	114	512

		(a)	(b)	(c)	(d)
3		714	913	604	829
		533	642	171	378

		(a)	(b)	(c)	(d)
4		811	932	870	435
		504	508	365	218

		(a)	(b)	(c)	(d)
5		840	753	430	950
		218	239	204	607

		(a)	(b)	(c)	(d)
6		517	833	953	920
		309	418	709	109

7 Take four hundred and sixty-one from eight hundred and thirteen.

		(a)	(b)	(c)	(d)
8	From	652	811	340	908
	Take	336	702	105	196

		(a)	(b)	(c)	(d)
9		673	575	814	910
		159	358	408	207

		(a)	(b)	(c)	(d)
10		570	911	731	760
		335	109	109	237

		(a)	(b)	(c)	(d)
11		860	514	840	682
		139	108	317	258

		(a)	(b)	(c)	(d)
12		570	961	543	916
		155	690	209	96

		(a)	(b)	(c)	(d)
13		930	754	670	860
		119	393	147	427

14 From nine hundred and fifteen take seven hundred and eighty-eight.

		(a)	(b)	(c)	(d)
15	From	1000	813	302	901
	Take	576	659	58	684

	(a)	(b)	(c)	(d)
16	702	1000	701	590
	89	99	178	499

	(a)	(b)	(c)	(d)
17	1000	1000	919	1000
	279	666	279	288

	(a)	(b)	(c)	(d)
18	901	716	1000	715
	279	175	198	282

	(a)	(b)	(c)	(d)
19	1000	712	1000	805
	468	369	788	669

	(a)	(b)	(c)	(d)
20	720	1000	913	951
	539	288	786	689

21 Take one hundred and ninety-eight from one thousand.

22

	(a)	(b)	(c)	(d)
From	813	1000	1000	493
Take	659	765	891	186

23

	(a)	(b)	(c)	(d)
	414	315	1000	1000
	287	179	747	981

24

	(a)	(b)	(c)	(d)
	1000	708	1000	801
	918	689	387	773

25

	(a)	(b)	(c)	(d)
	713	1000	1000	1000
	289	783	945	927

26

	(a)	(b)	(c)	(d)
	1301	1900	1410	1301
	85	891	1067	985

27

	(a)	(b)	(c)	(d)
	1305	1501	1601	1404
	89	888	889	899

28 Take ninety-seven from three hundred and fourteen.

		(a)	(b)	(c)	(d)
29	From	1304	1210	1011	1502
	Take	898	841	299	898

		(a)	(b)	(c)	(d)
30		1402	1105	1010	1315
		789	789	289	999

		(a)	(b)	(c)	(d)
31	Take	808	379	987	906
	From	1115	1001	1501	1312

		(a)	(b)	(c)	(d)
32	Take	893	589	976	689
	From	1011	1004	1301	1122

		(a)	(b)	(c)	(d)
33	Take	498	879	999	899
	From	1120	1006	1900	1080

		(a)	(b)	(c)	(d)
34	Take	849	998	995	799
	From	1003	1305	1500	1070

35 From one thousand take ninety-nine.

STANDARD II.

ADDITION.

1

(a)	(b)	(c)	(d)
793	849	908	895
8019	9108	7897	9013
95	18950	49	80807
90108	96	70490	78
19049	8268	2729	60526

2

(a)	(b)	(c)	(d)
8019	7905	9028	7806
987	859	984	798
95098	89909	7095	80905
87907	30591	57709	9097
3093	7457	70797	20097

3

(a)	(b)	(c)	(d)
45106	79185	69097	84793
897	809	809	9898
9789	28067	9078	84684
99075	4989	25968	983
8395	32086	86858	985

4

(a)	(b)	(c)	(d)
89099	25915	81975	79867
987	80879	8996	8986
8760	799	68078	50778
85988	18876	847	915
7985	658	50859	49788

5 Add together,—two thousand and ninety-seven; eight hundred and nine; one thousand and ninety-eight; one thousand five hundred and eighty-seven.

6

(a)	(b)	(c)	(d)
95567	80907	89495	78875
87896	7896	868	9087
4034	73864	8908	87098
30986	9987	10495	765
7923	148	84907	77896

7

(a)	(b)	(c)	(d)
70905	73485	91308	35987
878	897	896	8099
9787	9785	9087	88705
76819	34989	44789	19098
33575	72852	8155	42789

8

(a)	(b)	(c)	(d)
81358	85295	96785	69085
8987	9097	7859	50997
87836	78905	80908	7079
45948	89	795	895
60894	7759	6696	8053

9

(a)	(b)	(c)	(d)
8197	40895	8978	49197
95978	8778	90908	31876
8799	91099	7794	986
908	34156	85908	4039
78955	69496	86782	58966

10 Add together,—fifty thousand nine hundred and three; nine thousand and eighty-seven; eighty thousand and ninety; four hundred and five; forty thousand five hundred and seventy.

11

(a)	(b)	(c)	(d)
19640	48763	98643	78394
8376	9876	7620	9621
54790	75460	54086	18769
737735	378193	761	472
	854	740431	396890

12

(a)	(b)	(c)	(d)
98643	48601	186438	364083
7852	7868	76865	79854
976	78403	58963	107675
108481	6746	6749	3601
496850	562013	383589	490148

13

(a)	(b)	(c)	(d)
49876	47968	674832	760142
3874	200894	96401	68479
97621	7953	7628	3857
794	42106	549	26038
749358	242782	22843	42908

14

(a)	(b)	(c)	(d)
486301	486301	562064	98760
76548	76235	76853	546203
3291	168420	8920	67547
104671	9658	65483	958
50622	61711	23108	106695

15 Add together,—eighty thousand five hundred and one; nine thousand and ten; six hundred and nine; four thousand and seventy; fifty thousand eight hundred and forty-seven.

16

(a)	(b)	(c)	(d)
46201	48620	762081	98648
7648	796482	74392	61572
510687	60573	9765	3854
62953	2954	43576	324763
175142	1903	11628	115488

17

(a)	(b)	(c)	(d)
76428	396048	468321	384676
1576	78586	97685	71854
13904	3497	382763	9768
66839	62954	6548	35925
544299	72267	495386	145105

18

(a)	(b)	(c)	(d)
468976	462047	684796	98643
96543	87964	38945	384752
2680	391872	9728	9540
79469	915	60539	62395
1505	153314	27397	48797

19

(a)	(b)	(c)	(d)
49607	84397	48627	69557
687432	320974	284976	98763
75483	69382	65483	247458
9876	7659	7628	6746
79233	161090	327490	380080

20 Find the sum of,—one hundred thousand; ninety-eight thousand and forty-three; eight thousand nine hundred and seven; eight hundred and eighty-six; four hundred and forty-four.

21

(a)	(b)	(c)	(d)
98460	41032	96014	98437
105436	658709	558463	6985
7582	62348	87528	21846
976	7953	5467	375690
320051	41274	162736	137574

22

(a)	(b)	(c)	(d)
467219	389165	564307	683514
86532	78698	98762	79398
7165	4982	7654	8576
49762	32576	89583	62583
125759	98904	60298	67353

23

(a)	(b)	(c)	(d)
96743	97460	76491	68432
7489	3691	3567	6789
38936	14823	4826	4321
3567	1967	45238	25432
25374	267	6284	4063

24

(a)	(b)	(c)	(d)
46399	65432	27432	16498
4567	6789	4987	762
3276	4331	64	3456
51384	567	4573	5267
3609	50098	53	20225

25 Add together,—eighty thousand one hundred and four; nine thousand eight hundred and six; one hundred thousand; forty-five thousand eight hundred and ninety-seven; forty-four thousand one hundred and ninety-three.

26

(a)	(b)	(c)	(d)
726834	976959	565437	428964
609738	88429	938496	73649
64	736	987284	2897
2986	850427	93	37462
539659	999	8924	89716
22638	4672	302639	12885

27

(a)	(b)	(c)	(d)
826473	564279	382496	728469
960274	905384	997639	4637
689	62795	4625	48964
7349	6543	98697	98279
89769	937456	842647	960978
97771	396787	123078	62985

28

(a)	(b)	(c)	(d)
527899	824891	567899	782689
908796	964378	486490	69897
42735	7869	7638	462873
904289	542738	94396	357245
64378	9999	976427	649
354722	252630	39987	48169

29

(a)	(b)	(c)	(d)
678969	837649	643829	564289
705428	129897	756438	997936
483976	8965	9976	987
4289	79369	394896	6459
473864	842649	2741	327986
5465	921003	6441	75767

30 Add together,—four hundred and ninety; eighty-four thousand five hundred and nine; nine thousand nine hundred and ninety; ninety thousand and eighty-seven; one hundred thousand; thirty-nine thousand and eighty-eight.

SUBTRACTION.

		(a)	(b)	(c)	(d)
1	From	70032	50080	60440	46830
	Take	32815	5789	39594	793

	(a)	(b)	(c)	(d)
2	64301	13031	31002	63042
	35895	249	19868	25807

	(a)	(b)	(c)	(d)
3	44801	62013	45320	120314
	7665	42931	34816	74241

	(a)	(b)	(b)	(d)
4	62031	60135	32481	37641
	16012	10103	3958	9307

	(a)	(b)	(c)	(d)
5	39804	76041	74021	62801
	20497	38815	777	25665

	(a)	(b)	(c)	(d)
6	62401	76012	62013	38421
	42168	32648	15796	10312

	(a)	(b)	(c)	(d)
7	349806	762091	184610	602304
	231769	355883	75384	556195

8 Take sixty-one thousand seven hundred and five from eighty-one thousand and twelve.

		(a)	(b)	(c)	(d)
9	From	643201	703604	498321	640132
	Take	219065	495297	388915	233825

	(a)	(b)	(c)	(d)
10	638406	620701	627402	203406
	232270	69395	203266	8769

	(a)	(b)	(c)	(d)
11	320601	640260	760240	376042
	37594	531151	353717	68591

	(a)	(b)	(c)	(d)
12	620146	620704	380401	340524
	87533	475649	154292	37096

	(a)	(b)	(c)	(d)
13	628420	701010	360320	460020
	321284	492568	79086	251794

	(a)	(b)	(c)	(d)
14	964037	624603	346012	630142
	316691	308296	42566	169799

	(a)	(b)	(c)	(d)
15	226021	401362	324603	913012
	152678	85289	17161	92381

16 From one hundred thousand take eight thousand seven hundred and sixty-five.

		(a)	(b)	(c)	(d)
17	From	354906	401325	704032	246014
	Take	72969	93919	198869	37788

	(a)	(b)	(c)	(d)
18	243614	320164	427304	324602
	8478	78818	20988	70998

	(a)	(b)	(c)	(d)
19	426103	321064	631042	501001
	82697	13928	73696	36373

	(a)	(b)	(c)	(d)
20	314023	441031	116043	320305
	6797	68789	45697	93998

	(a)	(b)	(c)	(d)
21	321403	410324	123406	321460
	34057	76188	77189	77387

	(a)	(b)	(c)	(d)
22	242310	431044	310462	443501
	87976	6989	25789	36978

	(a)	(b)	(c)	(d)
23	400106	100000	310090	100000
	319869	71873	263999	17387

24 Take seventy-five thousand eight hundred and forty-nine from ninety-five thousand and twelve.

MULTIPLICATION.

	(*a*)	(*b*)	(*c*)	(*d*)
1	986658 × 2	8609559 × 2	855955 × 2	189564 × 2
	657838 × 3	2763835 × 3	5760838 × 3	645868 × 3
	492582 × 4	947541 × 4	9376329 × 4	7076865 × 4

	(*a*)	(*b*)	(*c*)	(*d*)
2	1827492 × 5	7238346 × 5	9382632 × 5	758328 × 5
	9195467 × 6	6181934 × 6	767297 × 6	842894 × 6
	8635179 × 7	7987804 × 7	284529 × 7	7571816 × 7

	(*a*)	(*b*)	(*c*)	(*d*)
3	281973 × 10	9164514 × 10	7382901 × 10	5328291 × 10
	1737195 × 11	197529 × 11	2957928 × 11	172986 × 11
	931594 × 12	1962697 × 12	1437928 × 12	946519 × 12

	(*a*)	(*b*)	(*c*)	(*d*)
4	507679 × 8	3577803 × 8	1936383 × 8	918933 × 8
	488726 × 7	916073 × 7	246765 × 7	405872 × 7
	2057829 × 11	4919748 × 11	5884967 × 11	7378593 × 11

	(*a*)	(*b*)	(*c*)	(*d*)
5	953572 × 12	879097 × 12	923947 × 12	987619 × 12
	969095 × 64	78004 × 66	486470 × 28	549895 × 84
	365815 × 84	20366 × 96	524685 × 88	6738 × 56

	(a)	(b)	(c)	(d)
6	975575 × 384	152386 × 480	2391 × 308	117175 × 176
	65815 × 840	168029 × 384	398485 × 480	140395 × 264
	2870 × 672	217340 × 96	57965 × 96	2940625 × 128

	(a)	(b)	(c)	(d)
7	69713 × 448	90071 × 168	144667 × 560	60827 × 132
	109979 × 420	13780 × 308	75497 × 240	82265 × 672
	704075 × 168	720775 × 264	705725 × 528	3046595 × 240

	(a)	(b)	(c)	(d)
8	254575 × 768	7813 × 363	74955 × 616	293675 × 960
	87209 × 528	40375 × 704	79075 × 560	42185 × 280
	39065 × 726	25305 × 896	202745 × 960	842875 × 768

	(a)	(b)	(c)	(d)
9	8275 × 1760	195115 × 1920	7175 × 2688	3127 × 1760
	18650 × 1792	12260 × 5280	144545 × 384	14991 × 3080
	184375 × 1568	296875 × 1792	190625 × 1280	429125 × 1408

	(a)	(b)	(c)	(d)
10	55625 × 1280	208957 × 352	329731 × 660	140395 × 264
	3328 × 1925	87175 × 1408	5948 × 880	46705 × 176
	109315 × 840	838975 × 768	7325 × 880	39775 × 880

	(a)	(b)	(c)	(d)
11	41395 × 264	251375 × 2560	456125 × 1408	738875 × 384
	5273 × 880	41397 × 896	201875 × 1408	189125 × 2464
	4901875 × 768	206875 × 704	93325 × 1848	278125 × 2560

DIVISION.

	(a)	(b)	(c)	(d)
1	633839 ÷ 2	326236 ÷ 2	563981 ÷ 2	381802 ÷ 2
	1825655 ÷ 2	1829309 ÷ 2	219010 ÷ 2	936456 ÷ 2
	2479255 ÷ 3	2471261 ÷ 3	1669446 ÷ 3	1118588 ÷ 3
	(a)	(b)	(c)	(d)
2	854015 ÷ 3	949864 ÷ 3	1388565 ÷ 3	851378 ÷ 3
	1848608 ÷ 4	2094482 ÷ 4	2416112 ÷ 4	2021294 ÷ 4
	1014416 ÷ 4	3305673 ÷ 4	2166812 ÷ 4	1230452 ÷ 4
	(a)	(b)	(c)	(d)
3	2335510 ÷ 5	3662008 ÷ 5	2618016 ÷ 5	4113051 ÷ 5
	1851220 ÷ 5	3060088 ÷ 5	1582342 ÷ 5	2340142 ÷ 5
	4953271 ÷ 6	1953890 ÷ 6	4328112 ÷ 6	2474184 ÷ 6
	(a)	(b)	(c)	(d)
4	2269623 ÷ 6	2547025 ÷ 6	1718838 ÷ 6	3195732 ÷ 6
	5618291 ÷ 7	3880350 ÷ 7	4354751 ÷ 7	6421548 ÷ 7
	3728342 ÷ 7	4517274 ÷ 7	5785299 ÷ 7	3666614 ÷ 7
	(a)	(b)	(c)	(d)
5	2604904 ÷ 8	6597528 ÷ 8	1305615 ÷ 8	6596975 ÷ 8
	2730177 ÷ 8	5050024 ÷ 8	5872963 ÷ 8	4114299 ÷ 8
	8256114 ÷ 9	2116548 ÷ 9	5682388 ÷ 9	7446276 ÷ 9

	(a)	(b)	(c)	(d)
6	5779556 ÷ 9	4708913 ÷ 9	6619558 ÷ 9	3332844 ÷ 9
	3612530 ÷ 10	4157030 ÷ 10	2713052 ÷ 10	6473820 ÷ 10
	2819235 ÷ 10	7036211 ÷ 10	3746262 ÷ 10	5570210 ÷ 10

	(a)	(b)	(c)	(d)
7	5743457 ÷ 11	7071801 ÷ 11	9100905 ÷ 11	7841911 ÷ 11
	5121303 ÷ 11	9098420 ÷ 11	5954150 ÷ 11	5091365 ÷ 11
	9914727 ÷ 12	6501861 ÷ 12	3405060 ÷ 12	9904963 ÷ 12

	(a)	(b)	(c)	(d)
8	5587092 ÷ 12	3448368 ÷ 12	8794097 ÷ 12	4341613 ÷ 12
	1666998 ÷ 8	7428716 ÷ 9	5758169 ÷ 11	10970912 ÷ 12
	2931381 ÷ 12	3662994 ÷ 7	6416216 ÷ 9	7130319 ÷ 11

	(a)	(b)	(c)	(d)
9	2489100 ÷ 11	1561151 ÷ 8	99284544 ÷ 12	4794612 ÷ 9
	885949 ÷ 12	991745 ÷ 12	4495525 ÷ 12	7580858 ÷ 12
	9081204 ÷ 11	8829120 ÷ 11	6120609 ÷ 11	5095820 ÷ 11

	(a)	(b)	(c)	(d)
10	47938338 ÷ 9	578586 ÷ 9	2586260 ÷ 9	500834 ÷ 9
	5891424 ÷ 8	3709752 ÷ 8	5771012 ÷ 8	426084 ÷ 8
	5782338 ÷ 7	2011737 ÷ 7	2647836 ÷ 7	5785122 ÷ 7

	(a)	(b)	(c)	(d)
11	8815968 ÷ 12	9906746 ÷ 12	8869968 ÷ 12	5619276 ÷ 12
	10101003 ÷ 11	713060 ÷ 11	609140 ÷ 11	316130 ÷ 11
	5438554 ÷ 9	7462557 ÷ 9	5810076 ÷ 9	7405857 ÷ 9

	(a)	(b)	(c)	(d)
12	9928335 ÷ 12	11019243 ÷ 12	8837557 ÷ 12	7779276 ÷ 12
	7048120 ÷ 11	8121201 ÷ 11	9919130 ÷ 11	7129290 ÷ 11
	7446276 ÷ 9	5444224 ÷ 9	4876438 ÷ 9	7462557 ÷ 9

	(a)	(b)	(c)	(d)
13	1549652 ÷ 8	3753384 ÷ 8	5870112 ÷ 8	663339 ÷ 8
	453168 ÷ 7	309842 ÷ 7	5155374 ÷ 7	389544 ÷ 7
	4495536 ÷ 12	10965027 ÷ 12	758184 ÷ 12	509665 ÷ 12

MISCELLANEOUS EXAMPLES.

A. (1) Add together,—forty-nine thousand and six; one hundred thousand; seventy-nine; forty-eight thousand and twenty; ninety thousand and ninety-six.

(2) Take three thousand and eighteen from fifty-six thousand three hundred.

(3) Divide ninety-nine thousand one hundred and sixty-eight by twelve.

B. (1) Add together,—ninety-seven thousand; two thousand two hundred and forty-four; five hundred and two; sixteen thousand; seventy-eight thousand nine hundred and thirty-six.

(2) From eighty-three thousand six hundred and forty take thirty-three thousand and sixty-seven.

(3) Multiply four thousand eight hundred and forty-three by eleven.

C. (1) Add together,—sixty thousand one hundred and forty; four thousand two hundred and seven; sixty-eight thousand four hundred; one hundred thousand; five hundred and forty-four.

(2) Take seventeen thousand two hundred and thirty-six from thirty-six thousand four hundred and sixty-two.

(3) Multiply eleven thousand four hundred and nineteen by eight.

D. (1) Add together,—seventy-three thousand six hundred and twenty-one; four thousand; one thousand two hundred and seventy; ninety-two thousand seven hundred; seventy thousand six hundred and sixty-four.

(2) Take eight thousand and twelve from twenty-seven thousand six hundred and forty-three.

(3) Divide sixty-two thousand six hundred and fifty-two by twelve.

E. (1) Add together,—ninety-one thousand five hundred and four; one hundred thousand; six thousand and forty-one; one hundred and twenty; six hundred and eight.

(2) Take twenty-seven thousand and fifty-two from thirty thousand seven hundred and eighty.

(3) Divide seventy-four thousand six hundred and nineteen by nine.

F. (1) Add together,—forty-six thousand and twenty; thirty-one thousand; sixty-two; four thousand and thirty; nine hundred and thirty-four.

(2) From forty thousand and ten take twenty thousand two hundred and eighty-nine.

(3) Multiply one thousand six hundred and forty-eight by eleven.

G. (1) Add together,—fifty-six thousand two hundred; thirty-three thousand six hundred and twenty-four; three hundred and two; ninety-seven thousand and forty; eight thousand three hundred and seventy-one.

(2) Take forty thousand nine hundred and ninety from fifty thousand.

(3) Divide eighty thousand nine hundred and five by eleven.

H. (1) Add together,—seventy-three thousand; one hundred thousand; thirty-four thousand eight hundred and ninety; sixty-seven; five hundred and sixty-six.

(2) Take thirty-nine thousand four hundred and ninety-one from ninety thousand and ten.

(3) Multiply thirty-one thousand two hundred and nineteen by twelve.

I. (1) Add together,—thirty-four thousand two hundred; ninety thousand six hundred and seventeen; two thousand and four; fifty-nine thousand and twenty; six thousand and eighty-seven.

(2) From eighty thousand and thirty take sixty-nine thousand one hundred and two.

(3) Multiply nine thousand and sixteen by eight.

J. (1) Add together,—five hundred and seventy-three; one hundred thousand; six hundred and twenty; eighty-four thousand two hundred and eighty-one; ten thousand and sixty-three.

(2) Take seventeen thousand five hundred and thirty-seven from sixty thousand and ten.

(3) Divide ninety-eight thousand nine hundred and fifty-two by twelve.

K. (1) Add together,—seventeen thousand and forty; one thousand; seven thousand and ninety; sixty-four; seven thousand three hundred and thirty-four.

(2) Take fifty-eight thousand and eighty-eight from sixty thousand nine hundred and seven.

(3) Multiply three thousand six hundred and twenty-six by seven.

L. (1) Add together,—ninety-nine thousand; one thousand four hundred and thirteen; one hundred thousand; two thousand one hundred and twenty-four; eighty-five thousand seven hundred and eighteen.

(2) From sixty thousand and twelve take forty-five thousand four hundred and ninety-three.

(3) Divide fifty-one thousand three hundred and fifty-two by eight.

M. (1) Add together,—eight hundred and ninety-nine; ninety thousand and eight; nine thousand and eighty-seven; fifty-one thousand and seventy; eighty-three thousand one hundred and nine.

(2) Take seventy-eight thousand six hundred and eighty-nine from ninety-one thousand and two.

(3) Multiply twenty-eight thousand seven hundred and twenty-nine by eleven.

STANDARD III.

DIVISION.

	(a)	(b)	(c)	(d)
1	1797824 ÷ 28	2393984 ÷ 64	6682905 ÷ 81	7942080 ÷ 96
	2651280 ÷ 48	2068339 ÷ 49	3059352 ÷ 72	353730 ÷ 15
	5386688 ÷ 84	3031168 ÷ 56	1891505 ÷ 55	1676512 ÷ 32
	(a)	(b)	(c)	(d)
2	2953008 ÷ 36	4506568 ÷ 88	602181 ÷ 27	526016 ÷ 64
	567972 ÷ 81	1069332 ÷ 132	566335 ÷ 77	554148 ÷ 108
	141401 ÷ 73	6388291 ÷ 91	1187066 ÷ 83	653384 ÷ 92
	(a)	(b)	(c)	(d)
3	1889202 ÷ 93	778940 ÷ 85	1660264 ÷ 79	288858 ÷ 93
	183554 ÷ 49	1653121 ÷ 59	3423602 ÷ 91	1205824 ÷ 83
	4874336 ÷ 76	19354137 ÷ 93	3658928 ÷ 52	4709136 ÷ 87
	(a)	(b)	(c)	(d)
4	4970305 ÷ 95	107401 ÷ 67	261609 ÷ 87	153734 ÷ 79
	2925212 ÷ 79	2680392 ÷ 78	168976 ÷ 59	5704341 ÷ 93
	39883704 ÷ 86	23379272 ÷ 76	57629708 ÷ 94	34882456 ÷ 56
	(a)	(b)	(c)	(d)
5	7218525 ÷ 379	5723192 ÷ 793	3222923 ÷ 895	5654841 ÷ 698
	5400623 ÷ 739	8383190 ÷ 918	1842503 ÷ 787	6013120 ÷ 819
	4151225 ÷ 919	7133207 ÷ 879	3306052 ÷ 918	6524586 ÷ 795
	(a)	(b)	(c)	(d)
6	3161678 ÷ 878	4201027 ÷ 899	7247890 ÷ 878	7080694 ÷ 997
	7249849 ÷ 906	5515093 ÷ 603	7273046 ÷ 909	5116157 ÷ 709
	358949 ÷ 391	8993486 ÷ 793	62792650 ÷ 684	45081308 ÷ 739

	(*a*)	(*b*)	(*c*)
7	20427395 ÷ 981	61860842 ÷ 845	1132948 ÷ 918
	47790494 ÷ 673	7594968 ÷ 919	8210885 ÷ 796
	5123442 ÷ 983	15029132 ÷ 759	63535197 ÷ 865
	(*a*)	(*b*)	(*c*)
8	33663635 ÷ 895	3522068 ÷ 836	74078081 ÷ 913
	49663264 ÷ 1568	200537288 ÷ 3118	181659488 ÷ 1987
	74392792 ÷ 2591	130571659 ÷ 1769	77448496 ÷ 1658
	(*a*)	(*b*)	(*c*)
9	173687628 ÷ 1892	173160901 ÷ 8114	303769150 ÷ 4116
	64040795 ÷ 3185	95387390 ÷ 3158	34498394 ÷ 3194
	3630940 ÷ 1908	15368774 ÷ 2164	6550274 ÷ 1819
	(*a*)	(*b*)	(*c*)
10	231373828 ÷ 3164	231376691 ÷ 2791	26062959 ÷ 3561
	5820012 ÷ 1863	4152250 ÷ 1954	69685223 ÷ 8464
	756135254 ÷ 9143	857178391 ÷ 9513	314170405 ÷ 9186
	(*a*)	(*b*)	(*c*)
11	64041233 ÷ 7009	64856606 ÷ 8006	43270809 ÷ 6009
	36080016 ÷ 8016	32477419 ÷ 9019	22957824 ÷ 8016
	20823215 ÷ 9401	11390372 ÷ 8603	87009120 ÷ 9504
	(*a*)	(*b*)	(*c*)
12	57959138 ÷ 7039	31161489 ÷ 6059	65302198 ÷ 8061
	17178794 ÷ 1906	7725492 ÷ 1907	17370447 ÷ 1908
	11427155 ÷ 1609	9828232 ÷ 1608	6045771 ÷ 1607
	(*a*)	(*b*)	(*c*)
13	18444205 ÷ 5904	11645264 ÷ 6409	7445887 ÷ 6806
	74800197 ÷ 9081	16109181 ÷ 8091	51083894 ÷ 7094
	7406038 ÷ 8076	5054137 ÷ 7098	7484425 ÷ 9083
	(*a*)	(*b*)	(*c*)
14	3389000 ÷ 9013	1461250 ÷ 8073	42900128 ÷ 7019
	66341187 ÷ 8019	22047466 ÷ 9103	9969486 ÷ 8079
	1793027 ÷ 1990	1270237 ÷ 8760	7881322 ÷ 9530

COMPOUND ADDITION.

1

(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d.
	12	8½	1	16	4¼	8	13	11¼	3	14	8¼
8	8	11¼		4	6	2	1	7¼		2	11½
	16	11	2	7	9¾		3	8	4	17	9
1	4	9½	6	13	11½	9	4	7¾	1	12	4¾
3	11	3¼	8	16	8¼	7	17	8		1	7¾

2

(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d.
	5	6½	1	14	7¾	5	6	4¼	3	16	8¼
2	6	9¼		6	8½		4	2	2	4	3½
3	14	10	3	17	9		3	7½		9	8¼
2	7	4½		2	7½	7	4	10¾	8	16	11
	7	1¼	9	2	7		1	0¾		14	6

3

(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d.
9	4	11	4	12	8	3	4	8½	6	8	9¼
	18	6¼		16	4¾	1	4	2¼		7	4½
7	2	8¾	7	18	7½		16	8½	6	15	5¼
9	5	5½		11	6	9	13	7¼		2	10
2	7	4¼	4	0	10¾	2	3	5	5	8	3

4

(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d.
5	13	8½	7	12	8	2	12	8½	1	16	7¾
	15	7½		9	4¼		7	6¾	8	8	9¼
3	4	2	3	6	9½	8	9	10½		4	10¼
	7	6½		18	4¼	9	13	8½	9	0	0½
3	5	3¼		6	1		16	3		17	8¼

5 Add together,—two pounds thirteen shillings and eightpence halfpenny; nineteen shillings and sixpence three farthings; six pounds eight and tenpence; eighteen shillings and sixpence halfpenny; eight pounds three shillings and tenpence farthing.

6

(a)			(b)			(c)			(d)		
£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
26	13	$7\frac{1}{4}$	94	7	8	29	6	$2\frac{1}{2}$	65	14	7
8	0	$1\frac{1}{2}$	12	19	$6\frac{1}{2}$	9	2	$10\frac{1}{2}$	8	13	$3\frac{1}{2}$
9	1	$7\frac{3}{4}$	2	5	$0\frac{1}{2}$	97	3	7	14	18	9
85	6	$4\frac{1}{2}$	29	13	$6\frac{3}{4}$	98	19	$6\frac{1}{2}$	7	10	$4\frac{1}{2}$
78	18	$6\frac{3}{4}$	1	8	$7\frac{3}{4}$	73	7	$3\frac{1}{2}$	73	5	$4\frac{1}{2}$

7

(a)			(b)			(c)			(d)		
£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
86	14	$2\frac{1}{4}$	62	8	$7\frac{1}{4}$	47	13	5	56	5	$10\frac{1}{2}$
3	19	$3\frac{3}{4}$	94	16	$2\frac{1}{2}$	8	6	$8\frac{1}{2}$	6	2	$8\frac{1}{2}$
74	14	$2\frac{1}{4}$		7	$3\frac{1}{2}$	9	14	5	19	16	$10\frac{3}{4}$
10	10	10	1	6	$2\frac{3}{4}$	26	17	$2\frac{3}{4}$	99	3	$8\frac{1}{4}$
15	10	11	23	0	$8\frac{1}{4}$	70	10	$4\frac{3}{4}$	27	5	$3\frac{1}{4}$

8

(a)			(b)			(c)			(d)		
£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
73	6	10	54	11	$9\frac{1}{2}$	42	16	8	87	14	$2\frac{1}{4}$
1	18	$7\frac{1}{4}$	10	10	$10\frac{3}{4}$	7	14	$9\frac{1}{2}$	76	3	$9\frac{3}{4}$
89	13	$6\frac{1}{2}$	87	2	4	46	2	$10\frac{1}{2}$	3	15	$10\frac{1}{4}$
27	1	$2\frac{3}{4}$		16	$8\frac{1}{2}$	39	12	$4\frac{3}{4}$		14	2
52	12	$10\frac{3}{4}$	37	5	$3\frac{3}{4}$	72	12	$7\frac{1}{2}$	1	13	$0\frac{3}{4}$

9

(a)			(b)			(c)			(d)		
£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
65	15	$7\frac{1}{2}$	74	2	$8\frac{1}{4}$	36	19	$7\frac{1}{2}$	84	2	$8\frac{1}{4}$
3	9	$9\frac{1}{4}$	8	8	$4\frac{1}{2}$	27	14	3	7	16	$2\frac{1}{2}$
27	14	$8\frac{3}{4}$	36	14	$8\frac{3}{4}$	7	8	$3\frac{1}{2}$	3	12	6
8	17	$6\frac{1}{4}$	2	7	$9\frac{1}{4}$	10	3	$5\frac{1}{2}$	8	11	$3\frac{3}{4}$
17	6	8	10	8	$7\frac{1}{4}$	90	13	5	86	16	$8\frac{3}{4}$

10 Find the sum of,—twenty-four pounds sixteen and sixpence; nineteen shillings and eightpence; twelve pounds and ninepence halfpenny; eighteen shillings and tenpence; thirty-four pounds six shillings and tenpence halfpenny.

11

(a)			(b)			(c)			(d)		
£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
503	17	$8\frac{1}{2}$	975	13	$2\frac{1}{4}$	434	10	$2\frac{1}{2}$	407	8	$2\frac{1}{4}$
364	10	$2\frac{1}{4}$	462	7	$8\frac{1}{2}$	273	4	5	380	19	$7\frac{1}{4}$
874	9	$0\frac{1}{2}$	37	16	$4\frac{1}{4}$	79	12	$8\frac{1}{4}$	27	3	$4\frac{1}{2}$
186	7	$5\frac{3}{4}$	896	14	$10\frac{1}{2}$	567	13	$2\frac{1}{2}$	625	15	2
882	12	$10\frac{3}{4}$	697	8	$3\frac{3}{4}$	779	12	$0\frac{3}{4}$	71	16	$3\frac{3}{4}$

12

(a)			(b)			(c)			(d)		
£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
876	14	$6\frac{1}{4}$	587	2	$7\frac{3}{4}$	872	4	$3\frac{1}{4}$	976	4	$1\frac{1}{4}$
942	12	$7\frac{1}{2}$	43	8	10	735	8	6	74	2	$4\frac{3}{4}$
36	3	6	689	10	$9\frac{1}{4}$	64	17	$9\frac{3}{4}$	956	18	3
796	17	$10\frac{3}{4}$	76	14	11	187	10	$2\frac{1}{2}$	47	16	$0\frac{1}{2}$
352	13	$9\frac{1}{4}$	404	7	$10\frac{1}{4}$	68	3	6	744	19	$2\frac{1}{2}$

13

(a)			(b)			(c)			(d)		
£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
537	13	$7\frac{1}{4}$	967	7	$5\frac{3}{4}$	726	17	4	673	12	$4\frac{1}{4}$
28	14	10	846	3	8	47	4	$3\frac{1}{4}$	64	8	2
654	4	$3\frac{1}{2}$	523	10	$6\frac{1}{2}$	536	15	8	82	9	$8\frac{1}{2}$
887	2	$4\frac{3}{4}$	547	14	$10\frac{1}{4}$	51	3	$2\frac{1}{2}$	36	16	$10\frac{1}{4}$
315	3	$10\frac{1}{4}$	815	18	$9\frac{1}{2}$	557	19	$1\frac{3}{4}$	953	11	1

14

(a)			(b)			(c)			(d)		
£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
436	17	$2\frac{1}{4}$	169	18	$9\frac{1}{4}$	864	4	$3\frac{1}{4}$	763	5	$7\frac{1}{4}$
47	4	$8\frac{1}{2}$	74	17	7	27	2	6	98	10	3
983	10	7	682	13	$8\frac{3}{4}$	81	12	$9\frac{1}{2}$	47	6	$10\frac{1}{2}$
64	8	$11\frac{3}{4}$	73	4	$10\frac{1}{2}$	976	15	$8\frac{3}{4}$	987	9	$5\frac{3}{4}$
472	3	2	242	17	$7\frac{1}{2}$	671	3	$8\frac{1}{2}$	525	19	$5\frac{1}{2}$

15 Find the sum of,—one hundred and twenty pounds six shillings and elevenpence halfpenny; nine pounds sixteen shillings and eightpence farthing; eighty pounds and sixpence; nineteen shillings and elevenpence halfpenny; two hundred and three pounds seventeen shillings and sevenpence three farthings.

16

(a)			(b)			(c)			(d)		
£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
9283	19	$0\frac{1}{2}$	9300	14	$2\frac{1}{2}$	3237	14	$10\frac{3}{4}$	9628	13	$2\frac{1}{2}$
9107	14	7	5642	10	3	679	7	$7\frac{3}{4}$	5364	4	7
64	8	$10\frac{1}{2}$	3202	15	$6\frac{1}{2}$	25	19	9	78	7	$2\frac{1}{2}$
5382	16	9	706	10	$9\frac{3}{4}$	786	6	$10\frac{3}{4}$	9901	18	8
6167	15	$9\frac{1}{2}$	9608	18	$10\frac{1}{2}$	777	14	3	5101	11	$9\frac{1}{2}$

17

(a)			(b)			(c)			(d)		
£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
7384	11	$6\frac{1}{2}$	8764	12	$4\frac{3}{4}$	636	13	$7\frac{1}{2}$	7364	12	$4\frac{1}{4}$
27	6	$4\frac{1}{2}$	42	0	8	2428	19	2	540	4	$5\frac{3}{4}$
802	4	$2\frac{1}{2}$	403	12	$7\frac{3}{4}$	564	4	3	9738	7	10
3760	14	$8\frac{1}{2}$	7629	5	11	36	12	$8\frac{1}{2}$	641	12	$6\frac{1}{2}$
7854	13	$2\frac{1}{2}$	1277	10	$9\frac{3}{4}$	33	13	4	9797	13	0

18

(a)			(b)			(c)			(d)		
£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
5674	2	$8\frac{1}{2}$	8201	4	2	9315	14	$7\frac{1}{2}$	3764	12	$5\frac{1}{2}$
5012	15	$11\frac{3}{4}$	376	12	3	1569	5	11	286	5	3
919	13	$6\frac{1}{4}$	4718	3	$11\frac{1}{4}$	36	19	$9\frac{1}{4}$	5341	16	$7\frac{1}{4}$
7296	10	$0\frac{1}{4}$	901	17	10	8769	4	$6\frac{3}{4}$	27	4	$10\frac{1}{2}$
719	2	$3\frac{1}{4}$	2104	2	$3\frac{1}{4}$	9128	16	$5\frac{3}{4}$	9607	13	1

19

(a)			(b)			(c)			(d)		
£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
9407	12	$2\frac{3}{4}$	5374	3	$8\frac{1}{4}$	9736	4	$8\frac{1}{4}$	8274	14	$7\frac{1}{2}$
369	5	4	276	14	$2\frac{1}{2}$	826	12	$10\frac{3}{4}$	9415	2	$8\frac{1}{4}$
9009	17	$1\frac{3}{4}$	9247	12	8	49	13	2	61	5	2
762	8	10	3760	4	$2\frac{1}{4}$	6173	17	$6\frac{1}{4}$	6836	13	$6\frac{1}{2}$
8493	18	$6\frac{1}{2}$	396	10	8	2565	14	$9\frac{1}{4}$	3476	8	$5\frac{3}{4}$

20 Add together,—four thousand eight hundred and nine pounds thirteen and sixpence; nine thousand and ten pounds and eightpence halfpenny; eighty-four pounds nineteen shillings and a farthing; six hundred and one pounds ten shillings and sixpence; nine hundred and twenty-two pounds eleven shillings and sevenpence farthing.

21

(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
80409	19	6	970642	12	$0\frac{1}{2}$	942743	12	$2\frac{1}{4}$
9098	16	$8\frac{1}{2}$	473862	7	$10\frac{1}{2}$	87364	2	7
604037	12	$8\frac{3}{4}$	489	19	$8\frac{3}{4}$	2896	15	$1\frac{3}{4}$
912674	4	0	1004	18	$2\frac{3}{4}$	997208	17	$8\frac{1}{2}$
328	7	$10\frac{1}{2}$	57208	6	$10\frac{1}{2}$	525341	19	$10\frac{1}{2}$
295773	16	$2\frac{3}{4}$	398711	14	$6\frac{3}{4}$	299996	13	$2\frac{1}{4}$

22

(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
230176	11	$2\frac{1}{2}$	64230	16	$8\frac{1}{2}$	248371	19	$11\frac{1}{4}$
9847	3	$9\frac{1}{4}$	3426	7	$9\frac{1}{4}$	6842	8	$9\frac{1}{4}$
61098	12	3	9864	13	$11\frac{3}{4}$	37483	17	$5\frac{3}{4}$
37684	6	$11\frac{3}{4}$	432987	11	$5\frac{1}{4}$	954	6	$10\frac{1}{4}$
3798	15	$2\frac{1}{2}$	6843	8	3	9769	13	$6\frac{1}{2}$
837	3	$6\frac{1}{4}$	15289	0	$5\frac{3}{4}$	8997	4	$4\frac{1}{2}$

23

(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
48240	19	$6\frac{1}{2}$	239540	15	$4\frac{1}{4}$	86204	19	$11\frac{1}{4}$
6408	3	$11\frac{1}{4}$	8396	8	$9\frac{3}{4}$	7281	6	$3\frac{1}{2}$
736	18	$2\frac{3}{4}$	987	13	$10\frac{1}{2}$	3893	11	$4\frac{3}{4}$
8967	11	4	6275	9	$3\frac{3}{4}$	235976	7	$10\frac{1}{2}$
390794	6	9	63829	6	$0\frac{1}{4}$	7368	0	$9\frac{1}{4}$
8194	17	$7\frac{3}{4}$	15494	0	$1\frac{1}{2}$	83349	4	$3\frac{1}{4}$

24

(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
46134	18	11	76103	14	$6\frac{1}{4}$	96482	19	$11\frac{1}{4}$
9658	3	$6\frac{1}{4}$	707698	11	$9\frac{1}{2}$	7693	11	$9\frac{1}{4}$
213865	9	$8\frac{3}{4}$	784	6	7	976	8	$3\frac{1}{4}$
7986	11	$1\frac{1}{2}$	3976	8	$11\frac{1}{4}$	526854	13	$10\frac{1}{4}$
38497	16	$9\frac{1}{4}$	7369	2	$4\frac{3}{4}$	3765	12	$8\frac{3}{4}$
9758	19	$4\frac{1}{2}$	29391	12	1	6173	4	8

25 Add together,—eighty thousand one hundred and four pounds thirteen shillings and eightpence; nine hundred and seven pounds nineteen shillings and fourpence three farthings; eight thousand and eighty pounds and ninepence; ninety thousand one hundred and ninety pounds eighteen shillings and a farthing; thirty-six thousand nine hundred and eight pounds one and eightpence.

COMPOUND SUBTRACTION.

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
1 From	92	10	$6\frac{1}{2}$	63	15	$2\frac{2}{4}$	82	6	$8\frac{1}{4}$	76	9	$2\frac{1}{2}$
Take	57	8	$2\frac{2}{4}$	7	15	$7\frac{1}{4}$	9	3	$3\frac{2}{4}$	3	18	$10\frac{2}{4}$

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
2	81	6	$5\frac{1}{4}$	93	8	$4\frac{3}{4}$	37	11	8	48	0	$7\frac{1}{4}$
	7	6	$9\frac{3}{4}$	20	6	$10\frac{1}{4}$	9	1	$5\frac{1}{4}$	1	18	$1\frac{3}{4}$

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
3	73	10	$6\frac{1}{2}$	65	12	$2\frac{1}{2}$	72	3	$8\frac{1}{4}$	35	3	9
	10	19	$1\frac{1}{4}$	13	18	$10\frac{2}{4}$	8	13	$0\frac{2}{4}$	1	19	$3\frac{3}{4}$

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
4	84	0	7	71	9	$7\frac{2}{4}$	82	14	9	65	11	$8\frac{1}{4}$
	1	19	$4\frac{1}{4}$	6	17	$8\frac{1}{4}$	8	18	$8\frac{1}{2}$	0	18	9

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
5	91	18	$5\frac{1}{4}$	83	0	$8\frac{1}{4}$	91	3	$7\frac{1}{2}$	82	7	$3\frac{1}{4}$
	8	18	$9\frac{3}{4}$	19	7	$3\frac{3}{4}$	8	19	$8\frac{1}{4}$	9	3	$10\frac{3}{4}$

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
6	64	11	$8\frac{1}{2}$	71	8	5	54	13	$6\frac{1}{2}$	67	8	11
	8	12	$4\frac{3}{4}$	6	9	$1\frac{1}{4}$	7	14	$2\frac{3}{4}$	2	9	$3\frac{1}{4}$

7 From forty pounds eleven shillings and a penny halfpenny, take thirty-eight pounds twelve shillings and ninepence three farthings.

8

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d.
From	403	19	7¼	612	8	11½	524	11	2½	347	9	4
Take	31	11	3½	97	17	0¾	81	19	8¾	30	18	9½

9

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d.
	542	18	7½	703	4	10	831	14	0½	621	10	1
	91	8	4¾	62	5	4¾	28	18	10¾	89	18	6½

10

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d.
	630	14	8	701	2	9½	401	13	6	510	10	2½
	98	3	8½	69	16	9¾	29	15	0¾	58	19	2½

11

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d.
	380	12	1¼	802	8	10½	342	12	1¼	306	0	4
	99	19	8¾	80	17	10¾	97	12	8¼	97	9	0¾

12

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d.
	461	4	10	802	1	4¾	314	12	0½	406	8	7½
	90	11	10¾	399	16	9½	88	19	6¾	35	17	7¾

13

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d.
	620	5	2	720	0	2	530	12	3	632	4	3¼
	87	11	10½	78	10	10¼	97	19	9½	73	12	11½

14 Take nine pounds one and sevenpence halfpenny from two hundred and one pounds and threepence.

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
15	4003	17	6	2061	14	0	4213	11	$9\frac{1}{2}$	6032	10	$0\frac{3}{4}$
	896	17	$10\frac{1}{2}$	787	17	$6\frac{3}{4}$	908	16	$9\frac{3}{4}$	891	10	$5\frac{1}{4}$

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
16	5130	9	$3\frac{1}{4}$	6102	18	$2\frac{1}{2}$	3760	5	$3\frac{1}{4}$	6013	7	$0\frac{1}{4}$
	797	11	$11\frac{1}{2}$	898	18	$10\frac{3}{4}$	325	18	$11\frac{1}{2}$	693	3	$7\frac{3}{4}$

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
17	7011	10	3	5241	6	$8\frac{1}{4}$	6035	2	$11\frac{1}{2}$	7015	3	9
	709	17	$10\frac{1}{2}$	938	14	$8\frac{1}{4}$	887	10	$7\frac{3}{4}$	911	10	$9\frac{3}{4}$

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
18	6412	18	$4\frac{1}{2}$	3150	6	7	6302	3	$4\frac{1}{2}$	5381	0	$6\frac{1}{4}$
	821	7	$9\frac{3}{4}$	817	15	$1\frac{1}{2}$	891	12	$4\frac{3}{4}$	959	10	$10\frac{3}{4}$

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
19	8001	13	5	7101	0	$9\frac{1}{4}$	8010	0	6	8001	0	$1\frac{1}{2}$
	649	19	$11\frac{3}{4}$	979	5	$9\frac{3}{4}$	988	16	$6\frac{3}{4}$	999	8	$9\frac{3}{4}$

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
20	9000	0	$4\frac{1}{4}$	8000	11	$0\frac{1}{2}$	8100	12	11	7410	10	$6\frac{1}{2}$
	799	18	$4\frac{3}{4}$	999	18	$4\frac{3}{4}$	880	18	$11\frac{3}{4}$	919	18	$6\frac{3}{4}$

21 From eight thousand and ten pounds nine shillings and a penny, take seven hundred and ninety-eight pounds nineteen and ninepence farthing.

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d.
22	10001	11	1	31030	12	5¼	10001	1	6	21010	0	4¼
	8019	18	7½	11290	19	11¾	1709	19	11½	1990	18	4½

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d.
23	14004	6	5	20100	13	4½	12012	15	1½	31101	17	3
	10276	13	11½	9919	12	4¾	11097	19	9¾	30008	19	9¾

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d.
24	40101	11	2	40202	13	4	41012	1	4	19019	11	1
	38191	18	6	31993	1	9½	35899	19	8½	17831	18	5½

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d.
25	31102	11	1	50005	5	5	30030	3	3	20000	13	0¼
	3992	19	10¼	3809	19	11¾	9799	19	9¾	9985	19	4¾

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d.
26	71001	0	6	40401	1	11	90130	0	4	81011	11	9
	69009	16	6¾	7099	17	11¾	8048	8	7	9999	16	9½

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d.
27	30019	13	5¼	81007	2	2	40001	5	5	90010	1	10¼
	6603	19	1¾	70099	2	6½	36259	19	11¾	8998	7	10¾

28 Take three thousand seven hundred and eighteen pounds nineteen and ninepence three farthings from fifty thousand and three pounds six and threepence.

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
29	403001	8	6	801000	1	2	71004	10	1	310001	11	6
	365801	9	7	609907	3	8¾	9639	10	9¼	118049	19	7

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
30	51001	0	7	610100	0	3½	100101	1	1	210010	10	1½
	4998	2	11½	50980	0	11¾	95989	8	5½	19098	1	9¾

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
31	301004	3	6¼	100040	15	11	810012	10	0½	60987	16	1¼
	299079	18	10¾	90921	0	11¼	719999	12	8¾	59068	14	10½

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
32	100090	11	11	601030	1	6	50190	18	10½	300101	0	6
	94850	19	11½	599796	19	10½	3999	17	10¼	290998	2	10½

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
33	131040	11	6	300410	0	0¼	100101	1	3½	78918	19	11
	109690	19	11½	286998	18	9½	90909	1	11¾	76999	4	11½

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
34	200141	0	8½	816000	10	9	92013	0	6	200130	13	9½
	180698	18	8¾	760993	18	10	9498	19	10½	193990	17	9½

35 Take sixty-five thousand nine hundred and eighty pound eighteen and elevenpence from three hundred thousand on hundred pounds and eightpence.

MISCELLANEOUS EXAMPLES.

1. (1) Paid the grocer £9 10*s.* 6*d.*, shoemaker 11*s.* 8*d.*, and draper £2 10*s.* 8*d.*; how much had I left of £16 7*s.* 9*d.*?

(2) Find the difference between eight thousand seven hundred and seventy-three pounds eight and fivepence, and one hundred thousand and nine pounds and a penny.

(3) Divide 646,760 by 92.

2. (1) How much will be left of 13 guineas after paying away £2 10*s.* 8*d.*, 9*s.* 1½*d.*, and £9 19*s.* 8¾*d.*?

(2) Take £18,076 18*s.* 6*d.* from twenty thousand and fifty pounds and threepence.

(3) Divide 872,981 by eight thousand and nine.

3. (1) Paid rent £52 12*s.*, painter's bill £15 18*s.* 11½*d.*, and builder's £29 13*s.* 9½*d.*; how much was the whole amount less than £100?

(2) Take £7,889 5*s.* 1*d.* from nineteen thousand and six pounds three shillings.

(3) Divide 86,424 by 78.

4. (1) If I have £3,000 in the bank, and am obliged to take out £85 9*s.* 10*d.*, £605 19*s.* 11*d.*, and £201 10*s.* 3*d.*, how much will be left?

(2) Find the difference between £50,000 0*s.* 10*d.* and £39,900 1*s.* 11*d.*

(3) Divide 297,970 by 718.

5. (1) Find the remainder after subtracting the sum of £902 16*s.* 8*d.* and £6,079 8*s.* 4*d.* from £7,010 19*s.*

(2) Take £985 6*s.* 11*d.* from one hundred and ten thousand and four pounds and sixpence.

(3) Divide 157 thousand and 94 by 98.

F. (1) Paid rent £16 19*s.* 11*d.*, grocer £8 19*s.* 1¾*d.*, tailor £4 16*s.* 11¼*d.*; how much did the whole amount to?

(2) Find the difference between £39,099 18*s.* 10*d.* and £40,013 13*s.*

(3) Divide 143,479 by 199.

G. (1) Bought a horse for £45, a cow for £25 10*s.* 6*d.*, some sheep for £30, and spent 3*s.* 2*d.* in refreshment; how much had I out of £110 10*s.*?

(2) Take £991 4*s.* 7*d.* from one thousand and ten pounds nineteen shillings.

(3) Divide fifty-six thousand 203 by 1519.

H. (1) What did the following bills amount to—grocer £1 10*s.* 10½*d.*, butcher £1 16*s.* 11½*d.*, coals £8 7*s.* 2*d.*, builder £20?

(2) Take £90,092 10*s.* 1*d.* from one hundred and one thousand pounds eleven shillings.

(3) Divide 935,410 by 805.

I. (1) How much had I left of 20 guineas after paying away £7 13*s.* 8¼*d.*, £10 10*s.* 11¼*d.*, and £1 19*s.* 1¼*d.*?

(2) From thirty-one thousand pounds and tenpence take £30,800 1*s.* 11*d.*

(3) Divide 140,244 by 87.

J. (1) A dealer took £50 out of the bank and bought a cow for 18 guineas, some sheep for 13 guineas, and pigs for £13 15*s.* 9*d.*; how much money had he left?

(2) Take £903 17*s.* 10*d.* from eleven hundred pounds nine and ninepence.

(3) Divide 155,825 by 575.

K. (1) How much was left of 13 guineas after paying draper £4 15*s.* 6½*d.*, grocer £3 0*s.* 10½*d.*, and butcher £4 19*s.* 5*d.*?

(2) Take £313 11*s.* 10*d.* from five thousand and five pounds and ninepence.

(3) Divide 40 thousand two hundred and 80 by 95.

L. (1) A grocer bought sugar for £6 15*s.* 10*d.*, tea for £50 17*s.*, bacon for £45 13*s.* 9*d.*, also some spice; the whole amounted to 100 guineas. What did he give for the spice?

(2) From six thousand and three pounds three shillings take £5,939 11*s.* 3*d.*

(3) Divide 455,232 by 7,113.

M. (1) A merchant bought goods for £1,050, he sold half of them for £718 19*s.* 6*d.*, and the other half, being damaged, for £315 16*s.* 6*d.*; what was his loss?

(2) Take £29,811 19*s.* 11½*d.* from £30,101 11*s.* 11*d.*

(3) Divide 1,268,629 by seven thousand and nine.

N. (1) A man earned £48 in three months—the first month £15 14*s.* 4*d.*, the second £19 2*s.* 5*d.*; how much did he earn the third month?

(2) Take £2,876 16*s.* 11*d.* from three thousand pounds.

(3) Divide 656,998 by 89.

O. (1) Paid £4 11*s.* 11½*d.* for grocery, 19*s.* 7¾*d.* for meat, and 14 guineas for rent; how much had I left out of 20 guineas?

(2) Find the difference between £2,855 4*s.* 8*d.* and three thousand and one pounds.

(3) Divide 5,821,312 by 8,176.

P. (1) Take the sum of £8 11*s.* 11½*d.*, £19 10*s.* 3¾*d.*, and £35 0*s.* 11¾*d.* from £81 15*s.*

(2) Take seven hundred and ninety-eight thousand and fifty-nine pounds seven shillings and sevenpence from eight hundred thousand and one pounds and sixpence.

(3) Divide 448,916 by 97.

Q. (1) What was the total profit made by a grocer in one year if on sugar he cleared £75 10*s.* 6*d.*, on tea £103 9*s.* 11*d.*, on candles and soap £65 19*s.* 7*d.*, and on sundries £98?

(2) Take £223 18*s.* 3*d.* from 300 guineas.

(3) Divide one million 134 thousand and forty-six by 919.

R. (1) Find the sum of 17 guineas, 15 halfsovereigns, seven halfcrowns, and £8 18*s.* 1½*d.*

(2) Find the difference between £887 3*s.* 8¼*d.* and ten thousand pounds.

(3) Divide 2,558,968 by eight thousand and ninety-eight.

S. (1) How much had I left out of £50 after paying rent £25, grocer £12 11*s.* 9½*d.*, baker £7 11*s.* 6½*d.*, and tailor £3 19*s.* 6*d.*?

(2) Take £3,090 19*s.* 7¼*d.* from five thousand and ten pounds and tenpence.

(3) Divide 891,366 by seven hundred and ninety-eight.

T. (1) Find the sum of £75 13*s.* 6½*d.*; 17*s.* 11¾*d.*; one thousand pounds and sevenpence; £95 5*s.*; and £35 2*s.* 10¾*d.*

(2) Take £1,484 6*s.* 10½*d.* from one thousand five hundred pounds and sixpence.

(3) Divide 7,223,853 by 987.

U. (1) Find the sum of three £10 notes, 25 guineas, 17 crowns, and £3 11*s.* 9*d.*

(2) A merchant received two thousand pounds for sales; he bought other goods for £1,193 13*s.* 10*d.*, and paid £675 3*s.* into the bank; what had he left?

(3) Divide 2,170,249 by seven hundred and nine.

V. (1) From thirteen thousand pounds, take the sum of £89 19*s.* 5*d.*; 9,019 17*s.* 11½*d.*; £98 13*s.* 10¾*d.*; and £3,457 14*s.* 5½*d.*

(2) Find the difference between £99 16*s.* 8¼*d.* and 110 guineas.

(3) Divide 6,646,496 by 907.

W. (1) I paid away £100 as follows,—to house decorator £76 13*s.* 8¼*d.*, bricklayer £13 15*s.* 5*d.*, ironmonger £8 8*s.* 3¾*d.*, and the remainder to a blacksmith for shoeing, what did he receive?

(2) Take ten thousand eight hundred and eighty-eight pounds and 8½*d.* from 14 thousand and four pounds and fourpence.

(3) Divide 3,120,747 by 519.

STANDARD IV.

COMPOUND ADDITION.

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
1	81094	19	8	196487	18	9	865463	18	8½
	908976	18	11¾	8973568	17	10½	7624086	19	11
	949	19	9	9843	19	9	476032	11	2¾
	9084	7	6¾	376	8	3¾	8654	7	6½
	112898	1	3½	950226	2	11½	1136066	15	0

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
2	397643	18	7½	486397	14	9½	763986	14	9
	765482	16	8	769539	11	11	76384	19	11
	1984328	19	11¾	86436	9	10¾	8965	13	8¾
	643917	8	9½	7984	19	8	63859	8	5½
	36310657	2	3¼	662681	7	1½	1098854	2	5¼

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
3	679853	19	11	486235	19	11	684376	19	1¾
	6483972	8	9½	79843	8	9	98543	16	9
	34769	12	8¾	65479	13	8¾	986543	11	11½
	7624	9	6	638742	7	6½	9479	8	6
	22899839	10	4	8840002	16	4¾	8382057	6	1¼

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
4	486394	19	11	986437	19	11½	798643	18	4½
	98762	12	8½	98674	13	8	65982	11	3
	356948	8	6¾	108436	8	9¾	487397	8	11½
	7956	13	10	35679	6	7½	79576	13	9
	8150238	11	3½	781803	12	4¾	608799	10	10½

5 **Add together,—ninety thousand and eighty pounds and ninepence farthing; nine hundred and nine thousand and seven pounds fourteen shillings and a farthing; three thousand and four pounds and fivepence; nine hundred thousand seven hundred and ten pounds five shillings and a halfpenny; thirty-five thousand pounds nineteen shillings and three farthings.**

6

(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
696543	19	$4\frac{1}{2}$	98764	13	11	47609	17	$9\frac{1}{2}$
79865	13	11	684328	9	$2\frac{1}{4}$	98641	16	11
987452	8	$9\frac{3}{4}$	3869402	6	6	329765	15	$2\frac{1}{4}$
62019	6	7	76536	11	$9\frac{3}{4}$	76985	11	$8\frac{3}{4}$
28276149	18	$4\frac{1}{4}$	5484987	18	$10\frac{3}{4}$	507361	7	$5\frac{1}{2}$

7

(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
98648	17	9	486398	18	$11\frac{1}{4}$	98647	11	6
368259	13	8	75486	13	8	549762	16	$8\frac{1}{4}$
65471	8	$11\frac{3}{4}$	398743	9	$6\frac{1}{2}$	7583	8	$9\frac{1}{2}$
9764	11	$6\frac{1}{4}$	8491	6	$7\frac{3}{4}$	64396	14	10
1468955	8	$4\frac{1}{2}$	132894	14	$4\frac{3}{4}$	583629	11	$6\frac{3}{4}$

8

(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
764861	19	10	986471	15	$2\frac{1}{2}$	698648	19	11
39654	7	$6\frac{1}{4}$	98653	8	6	76836	8	$9\frac{3}{4}$
54796	8	$9\frac{3}{4}$	7965	13	$9\frac{3}{4}$	3597	15	$6\frac{1}{4}$
198537	11	6	75639	19	$11\frac{1}{4}$	84975	11	$8\frac{1}{2}$
203555	15	$6\frac{1}{4}$	61669	3	2	366353	11	$5\frac{3}{4}$

9

(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
769854	18	$6\frac{1}{4}$	468910	14	7	398647	14	$9\frac{1}{4}$
78652	14	11	97654	9	$11\frac{1}{4}$	76854	9	11
9876	9	$8\frac{1}{2}$	6843	8	$6\frac{1}{2}$	187468	11	$10\frac{1}{2}$
376985	7	$5\frac{3}{4}$	384792	11	$10\frac{1}{4}$	9653	8	$7\frac{3}{4}$
775661	11	$8\frac{1}{2}$	53810	18	$8\frac{1}{2}$	57781	16	$6\frac{1}{2}$

10 Find the sum of,—forty thousand and one pounds two and sevenpence farthing; two hundred and six thousand pounds seventeen shillings and a halfpenny; sixty-nine thousand and nine pounds five shillings and three farthings; one hundred thousand and two pounds eighteen and twopence halfpenny; three hundred and twenty-eight pounds seven and sixpence farthing.

11

(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
965476	18	7¼	963048	17	6½	76329	14	8½
876538	16	8¾	82659	9	4¾	660	18	11
39765	8	6	7506	18	9	3098	13	5¾
96047	19	11½	36897	16	8¼	68547	9	7¼
9032574	1	7¾	112927	5	9½	1454769	6	10½

12

(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
48763	14	11	764832	19	7¼	76384	16	9
765489	16	8½	3079	11	3¾	5476	8	6½
39876	8	6¾	56807	13	9	708	19	5¾
907	13	7¼	762	18	8¾	32847	11	11½
46266	9	7¾	75823	13	10¼	7622	6	10½

13

(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
176905	13	11¾	826904	18	9¼	84379	15	3¾
98743	9	8½	87539	7	6½	665986	9	11½
2649876	16	3½	398762	11	5¾	37895	12	9¼
37689	18	9¾	79843	8	11	8764	10	6½
385593	11	10½	3247691	5	8¾	94378	8	7¾
984010	0	4	683591	5	2¼	25942	2	4¾

14

(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
49614	6	11½	291643	18	7½	368731	18	2¼
8397	11	8¾	8762	9	8¼	97643	9	7½
67482	9	7¼	1729574	11	10¾	649865	13	11¼
535783	7	6¾	37985	17	6½	5387694	12	9¾
6576	15	5	216859	5	9	276386	8	10
64965	0	9½	68902	10	0	602300	16	2¾

15 Add together,—nineteen pounds seven and sixpence farthing; two thousand eight hundred pounds twelve shillings and three farthings; thirty-six thousand four hundred and six pounds four and tenpence; seventy thousand two hundred and nine pounds nineteen and sevenpence halfpenny; sixty-nine pounds five and ninepence halfpenny.

COMPOUND SUBTRACTION.

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d.
1	40100	1	$2\frac{1}{4}$	763004	2	0	90601	11	$0\frac{1}{4}$	300100	2	$7\frac{1}{4}$
	9939	17	$9\frac{3}{4}$	359991	16	$9\frac{1}{2}$	59889	8	$9\frac{3}{4}$	279059	19	$3\frac{1}{2}$
	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d.
2	44030	0	1	70040	19	$0\frac{1}{2}$	20010	0	0	40641	10	5
	6623	16	$10\frac{3}{4}$	56638	17	$3\frac{1}{4}$	17947	16	$11\frac{1}{4}$	3576	10	$11\frac{3}{4}$
	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d.
3	70121	9	5	30204	0	$0\frac{1}{4}$	40102	8	$0\frac{1}{4}$	41102	10	$1\frac{1}{4}$
	9718	11	$11\frac{3}{4}$	9799	12	$11\frac{3}{4}$	36798	15	$10\frac{1}{2}$	7891	17	$0\frac{3}{4}$
	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d.
4	65006	15	$2\frac{3}{4}$	65034	0	9	70361	4	$0\frac{1}{2}$	31020	3	$0\frac{1}{2}$
	57972	18	$7\frac{1}{4}$	18751	19	$8\frac{1}{4}$	62087	19	$6\frac{1}{2}$	18988	19	$8\frac{3}{4}$
	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d.
5	64021	15	5	43069	8	$2\frac{1}{2}$	80011	3	0	30402	6	$8\frac{1}{4}$
	8376	19	$11\frac{3}{4}$	5419	8	$11\frac{3}{4}$	39391	19	$11\frac{1}{4}$	1797	7	$0\frac{3}{4}$
	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d.
6	30403	13	2	90120	8	$2\frac{1}{2}$	30102	5	$2\frac{1}{2}$	60120	9	5
	7798	17	$8\frac{3}{4}$	59957	19	$10\frac{1}{2}$	3896	19	$10\frac{3}{4}$	9889	9	$11\frac{3}{4}$

7 Take eighty-nine thousand one hundred and ninety-three pounds fifteen shillings and eightpence farthing from two hundred thousand pounds.

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d.
8	62001	14	1½	50200	1	3	20110	16	6	50110	9	0¼
	9697	17	9¾	9958	18	10½	7397	19	10½	16898	16	11½

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d.
9	5301001	10	2½	301264	0	0	400091	1	3	902800	17	1
	4382769	14	9½	240826	19	8¼	74940	16	9¾	298484	14	9¾

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d.
10	360840	0	1½	483010	1	2½	100100	0	1¾	360070	0	0
	53433	19	9¾	392907	12	7	59498	16	10¼	269966	12	6¾

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d.
11	76010	1	2½	700204	3	0¼	200101	0	4½	200163	1	0
	15606	13	10¾	97189	17	11¼	95987	17	3¾	97858	14	10½

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d.
12	180000	0	1	7010010	0	6	830000	0	9¼	70101	16	8½
	109996	18	4	590774	17	1½	99980	19	6½	69908	19	4¾

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d.
13	701003	13	0¼	10000	10	6	703113	11	0	310907	7	7
	609839	18	9¾	998	18	5¼	82869	18	4½	94888	15	11½

14 Take sixty-nine thousand six hundred and eighty-eight pounds thirteen and fourpence halfpenny from three hundred thousand pounds thirteen shillings.

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
15	143001	1	6	701036	0	5	313001	1	3	569004	3	0
	89718	19	$11\frac{1}{2}$	97899	8	$10\frac{1}{2}$	31766	18	$11\frac{3}{4}$	9871	17	$6\frac{3}{4}$

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
16	900040	3	8	3000000	0	0	200050	1	$3\frac{1}{4}$	353002	13	0
	76320	8	$6\frac{1}{2}$	180278	16	$7\frac{1}{2}$	8077	19	$11\frac{1}{2}$	9871	17	$6\frac{3}{4}$

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
17	900040	3	8	103019	11	11	203101	3	3	70910	19	$0\frac{1}{2}$
	278897	10	$4\frac{1}{4}$	88689	17	$11\frac{3}{4}$	9679	19	$10\frac{1}{2}$	6791	19	$8\frac{3}{4}$

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
18	811041	0	$11\frac{1}{2}$	313041	13	$6\frac{1}{4}$	700101	0	1	34361	12	$8\frac{1}{2}$
	89923	8	$11\frac{3}{4}$	86609	1	$11\frac{3}{4}$	98888	16	$10\frac{1}{2}$	6071	19	$7\frac{3}{4}$

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
19	131004	10	$10\frac{1}{4}$	5000050	2	2	401030	0	11	60109	18	$1\frac{1}{4}$
	3589	18	$10\frac{1}{2}$	668777	18	$2\frac{1}{2}$	99969	17	$10\frac{1}{4}$	4999	18	$5\frac{3}{4}$

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
20	200000	0	9	516024	0	$2\frac{1}{4}$	301904	7	$1\frac{1}{2}$	1383718	10	9
	853	8	$10\frac{1}{4}$	433283	16	$5\frac{1}{4}$	12785	15	$10\frac{3}{4}$	466412	16	$3\frac{3}{4}$

21 Take three hundred and ninety thousand one hundred and thirty pounds eighteen shillings and three farthings from four hundred and two thousand and four pounds nine shillings and fourpence.

COMPOUND MULTIPLICATION.

	(a) £	s.	d.		(b) £	s.	d.		(c) £	s.	d.	
1	3550	17	8¼	× 2	977	16	7¾	× 2	995	19	9¾	× 2
	575	11	2½	× 3	9390	19	10¼	× 3	1848	19	9¾	× 3
	273	17	9¾	× 4	487	17	9½	× 4	7787	18	9¾	× 4
	(a)				(b)				(c)			
	£	s.	d.		£	s.	d.		£	s.	d.	
2	16542	11	3	× 5	8084	7	8¼	× 5	388	12	8¼	× 5
	3931	19	11½	× 6	1846	15	4¾	× 6	4068	11	8¾	× 6
	16729	18	10¾	× 7	8889	13	8¼	× 7	5939	0	6¾	× 7
	(a)				(b)				(c)			
	£	s.	d.		£	s.	d.		£	s.	d.	
3	2787	16	9¾	× 8	6763	17	9¾	× 8	1598	16	9¾	× 8
	381	19	1¾	× 9	1489	4	4	× 9	817	18	1¾	× 9
	5145	11	9½	×10	372	17	7½	×10	2802	15	6½	×10
	(a)				(b)				(c)			
	£	s.	d.		£	s.	d.		£	s.	d.	
4	3938	19	11¼	×11	1893	10	10½	×11	834	16	3¾	×11
	5349	19	9¼	×12	6690	18	11¼	×12	5394	19	9¼	×12
	5819	6	7¼	× 9	1913	8	7¼	× 9	812	14	7	× 9
	(a)				(b)				(c)			
	£	s.	d.		£	s.	d.		£	s.	d.	
5	5706	0	7¾	×18	3379	19	11½	×24	9641	13	8¾	×48
	901	6	4	×81	43	18	0½	×72	325	3	0½	×72
	751	1	8¾	×96	11	16	2¼	×144	1095	2	5¾	×96
	(a)				(b)				(c)			
	£	s.	d.		£	s.	d.		£	s.	d.	
6	4875	1	6¼	×144	78	3	7¼	×192	163	0	5¾	×192
	427	5	6¼	×192	33	8	9¼	×240	15	11	1¾	×720
	41	17	2	×264	45	7	7¼	×288	204	3	4	×168

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
7	28	18	$8\frac{3}{4}\times432$	1517	5	$0\frac{1}{4}\times528$	339	12	$8\frac{1}{2}\times384$
	657	17	$1\frac{3}{4}\times672$	690	2	$7\frac{1}{4}\times768$	376	12	$1\frac{3}{4}\times672$
	409	3	$10\frac{3}{4}\times768$	37	2	$0\frac{1}{2}\times864$	91	13	$4\frac{3}{4}\times896$

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
8	301	14	$4\frac{3}{4}\times3024$	85	6	$6\frac{1}{4}\times1056$	435	1	$0\frac{3}{4}\times3024$
	522	6	$7\frac{1}{2}\times1536$	0	10	$1\frac{1}{4}\times4224$	536	17	$1\frac{3}{4}\times1536$
	352	13	$7\frac{1}{4}\times1152$	855	3	$8\frac{3}{4}\times1296$	285	14	$0\frac{1}{4}\times2880$

COMPOUND SHORT DIVISION.

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
1	182031	6	$7\frac{1}{2}\div2$	92723	19	$3\div2$	56687	5	$10\frac{1}{2}\div2$
	165028	7	$10\frac{1}{2}\div2$	128039	4	$1\frac{1}{2}\div2$	1472087	12	$10\frac{1}{2}\div2$
	59407	11	$7\frac{1}{2}\div3$	84220	12	$11\frac{1}{2}\div3$	138857	3	$10\frac{1}{2}\div3$

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
2	246140	17	$11\frac{1}{2}\div3$	273194	18	$3\frac{3}{4}\div3$	85387	4	$11\frac{1}{2}\div3$
	329491	10	$6\div4$	292115	17	$3\div4$	90477	7	$6\div4$
	173315	17	$9\div4$	258927	13	$3\div4$	149734	5	$10\div4$

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
3	1445867	12	$8\frac{1}{2}\div5$	186447	19	$10\frac{3}{4}\div5$	410684	18	$1\frac{1}{4}\div5$
	231859	11	$6\frac{3}{4}\div5$	187032	17	$3\frac{1}{2}\div5$	230637	15	$8\frac{3}{4}\div5$
	438173	17	$9\div6$	441789	17	$7\frac{1}{2}\div6$	168657	19	$9\div6$

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
4	3848174	9	$10\frac{1}{2}\div6$	260076	9	$3\div6$	5486540	3	$10\frac{1}{2}\div6$
	221460	10	$0\frac{1}{2}\div7$	492425	11	$7\frac{1}{2}\div7$	260462	16	$0\frac{3}{4}\div7$
	221399	18	$10\frac{3}{4}\div7$	138140	5	$0\frac{3}{4}\div7$	1339537	0	$4\frac{1}{2}\div7$

	(a)				(b)				(c)			
	£	s.	d.		£	s.	d.		£	s.	d.	
5	339863	14	6	÷8	4837859	9	0	÷8	1557030	17	4	÷8
	225542	19	6	÷8	5891863	14	6	÷8	4451352	9	10	÷8
	582656	2	$2\frac{1}{2}$	÷9	382095	2	$9\frac{3}{4}$	÷9	120043	3	$7\frac{1}{2}$	÷9

	(a)				(b)				(c)			
	£	s.	d.		£	s.	d.		£	s.	d.	
6	293162	8	$6\frac{3}{4}$	÷9	390191	18	$8\frac{1}{4}$	÷9	379219	13	$7\frac{1}{2}$	÷9
	281639	11	$11\frac{1}{2}$	÷10	5537121	2	1	÷10	1953209	12	$2\frac{1}{2}$	÷10
	3746289	10	$6\frac{3}{4}$	÷10	622641	11	$10\frac{1}{2}$	÷10	284676	3	$1\frac{1}{2}$	÷10

	(a)				(b)				(c)			
	£	s.	d.		£	s.	d.		£	s.	d.	
7	585702	7	$1\frac{1}{2}$	÷11	456804	3	$8\frac{1}{2}$	÷11	3092017	14	$1\frac{1}{2}$	÷11
	713128	7	$5\frac{1}{2}$	÷11	316134	13	$5\frac{1}{2}$	÷11	217113	16	$2\frac{1}{2}$	÷11
	882630	13	3	÷12	2379057	2	6	÷12	3394038	14	9	÷12

	(a)				(b)				(c)			
	£	s.	d.		£	s.	d.		£	s.	d.	
8	776555	11	7	÷12	992862	14	$7\frac{1}{2}$	÷12	2810087	14	$6\frac{1}{2}$	÷12
	746249	18	3	÷ 9	824525	13	$8\frac{1}{2}$	÷ 9	6628343	13	$10\frac{1}{2}$	÷ 9
	804701	19	$2\frac{1}{2}$	÷11	784111	9	2	÷11	5140915	14	$11\frac{3}{4}$	÷11

REDUCTION OF MONEY.

Reduce to farthings.

	(a)				(b)				(c)				(d)			
	£	s.	d.		£	s.	d.		£	s.	d.		£	s.	d.	
1	13	5	$8\frac{3}{4}$		24	11	$3\frac{1}{2}$		95	1	$5\frac{3}{4}$		123	0	$11\frac{3}{4}$	
	347	1	$1\frac{1}{4}$		580	12	$3\frac{3}{4}$		638	15	$8\frac{3}{4}$		387	9	$5\frac{1}{4}$	
	522	3	$9\frac{1}{4}$		860	17	$9\frac{3}{4}$		939	5	$10\frac{1}{4}$		295	12	$3\frac{3}{4}$	

	(a)				(b)				(c)				(d)			
	£	s.	d.		£	s.	d.		£	s.	d.		£	s.	d.	
2	1595	12	$8\frac{3}{4}$		1982	2	$5\frac{1}{4}$		1116	16	$8\frac{3}{4}$		3293	8	$11\frac{3}{4}$	
	1050	3	$11\frac{3}{4}$		1795	12	$3\frac{3}{4}$		1988	13	$8\frac{1}{4}$		1079	3	$8\frac{3}{4}$	
	5316	13	$8\frac{3}{4}$		3140	12	$6\frac{1}{4}$		1770	18	$9\frac{1}{4}$		1048	19	$2\frac{1}{2}$	

Reduce to pounds, &c.

	(a) farthings.	(b) farthings.	(c) farthings.	(d) farthings.
3	19182	20786	22782	27807
	71022	87901	79446	87316
	110079	116910	173790	165768

	(a) halfpence.	(b) halfpence.	(c) halfpence.	(d) halfpence.
4	50271	342231	355041	197607
	78696	308112	92524	268707
	82879	309024	178875	294559

COMPOUND LONG DIVISION.

	(a) £ s. d.	(b) £ s. d.	(c) £ s. d.
1	4466 6 $6\frac{1}{2} \div 13$	4120 15 $1\frac{1}{2} \div 13$	7854 15 $9\frac{1}{2} \div 13$
	2020 11 10 $\div 17$	2937 16 3 $\div 17$	12114 5 $0\frac{3}{4} \div 17$
	13906 13 $10\frac{1}{2} \div 19$	6691 4 $1\frac{1}{2} \div 19$	3278 17 $8\frac{1}{2} \div 19$
	(a) £ s. d.	(b) £ s. d.	(c) £ s. d.
2	2534 5 $4\frac{1}{2} \div 39$	2477 2 $2\frac{1}{2} \div 39$	6714 4 $3\frac{3}{4} \div 39$
	31472 7 $5\frac{1}{2} \div 43$	1606 2 $9\frac{1}{2} \div 43$	832 2 $9\frac{1}{2} \div 43$
	4720 6 3 $\div 57$	2541 2 $7\frac{1}{2} \div 57$	1919 5 $11\frac{1}{4} \div 57$
	(a) £ s. d.	(b) £ s. d.	(c) £ s. d.
3	3120 17 3 $\div 84$	4462 4 9 $\div 84$	3665 0 6 $\div 84$
	8674 1 $10\frac{1}{2} \div 95$	30111 14 $8\frac{1}{2} \div 95$	2736 3 $11\frac{1}{2} \div 95$
	3254 8 $0\frac{3}{4} \div 59$	1702 12 10 $\div 59$	3833 17 $10\frac{1}{2} \div 59$

	(a) £ s. d.	(b) £ s. d.
4	3480 12 6 $\div$ 75	4622 6 $10\frac{1}{2} \div$ 75
	1930 2 $3\frac{1}{2} \div$ 97	8017 5 $3\frac{1}{2} \div$ 97
	66403 3 $1\frac{3}{4} \div$ 318	74238 0 $11\frac{1}{4} \div$ 372

(c)

£	s.	d.		
2835	18	9	÷	75
15902	19	3½	÷	97
184386	11	10½	÷	365

(d)

£	s.	d.		
2118	16	6¾	÷	75
13160	12	2½	÷	97
230125	19	11½	÷	381

(a)

£	s.	d.		
78060	12	9¾	÷	395
190534	13	8½	÷	619
363129	18	6	÷	873

(b)

£	s.	d.		
72338	19	9	÷	398
198527	18	3½	÷	627
517735	14	10½	÷	956

(c)

£	s.	d.		
91328	18	4½	÷	419
86652	14	9	÷	634
303586	16	7¾	÷	987

(d)

£	s.	d.		
54599	9	11½	÷	459
483426	4	0½	÷	687
373113	1	10½	÷	899

(a)

£	s.	d.		
100404	13	9½	÷	1093
2847381	13	2¾	÷	2837
3171561	16	9½	÷	3908

(b)

£	s.	d.		
1823708	14	3½	÷	3019
12329074	2	1½	÷	4087
5325772	8	3	÷	5906

(c)

£	s.	d.		
910598	11	4¾	÷	2019
3977723	18	6	÷	3906
1793835	4	1	÷	5087

(d)

£	s.	d.		
143979	8	2	÷	3901
3279925	17	3½	÷	4086
1004363	0	1	÷	5807

(a)

£	s.	d.		
67786	2	2	÷	8907
9795	11	8	÷	9816
6582	13	11½	÷	9905

(b)

£	s.	d.		
52118	10	5½	÷	7819
8445	0	3½	÷	8909
5515	15	6¾	÷	9098

(c)

£	s.	d.		
84308	14	9¾	÷	8731
6057	7	6½	÷	8099
6459	11	0	÷	9906

(d)

£	s.	d.		
61550	9	6¾	÷	7191
6830	4	8	÷	8909
5335	0	1¾	÷	9591

REDUCTION OF WEIGHTS AND MEASURES.

AVOIRDUPOIS WEIGHT.

	Reduce				(a)		Reduce				(b)		
	tons.	cwt.	qrs.	lbs.	oz.		tons.	cwt.	qrs.	lbs.	ozs.	drs.	
1	3	14	3	21	3	to ounces.	0	10	2	23	14	4	to drams.
	143	10	0	12	9	to ounces.	1	11	3	2	10	10	to drams
	0	6	2	11	13	to ounces.	15	14	3	21	0	0	to lbs.

(c)

528592 ounces to tons, &c.
713968 ounces to tons, &c.
31544 ounces to cwts., &c.

(d)

54016 drams to cwts., &c.
62238 ounces to tons.
110848 drams to cwts.

TROY WEIGHT.

Reduce (a)

2 1 lb. 7 oz. 2 dwts. 14 grs. to grains.
3 lb. 8 oz. 8 dwts. 1 gr. to grains.
1 oz. 17 dwts. 13 grs. to grains.

(b)

1 lb. 4 oz. 13 dwts. 19 grs. to grains.
17 lb. 2 oz. 3 dwts. to dwts.
2 oz. 2 dwts. 10 grs. to grains.

(c)

218827 grains to lbs.
47413 grains to lbs.
773219 grains to lbs.

(d)

5605 grains to ounces.
19917 dwts. to lbs.
17672 dwts. to lbs.

SQUARE MEASURE.

Reduce (a)

3 30 a. 0 r. 4 p. 4 yds. to sq. yards.
1889 a. 2 r. 32 p 24 yds. to sq. yards.
77 yds. 2 ft. 82 in. to sq. inches.

(b)

91 yds. 2 ft. 119 in. to inches.
848 a. 1 r. 2 p. 22½ yds. to yards.
147 a. 0 r. 27 p. 19½ yds. to yards.

(c)

37181 sq. feet to roods.
647955 sq. feet to acres.
2010899 sq. yards to acres.

(d)

3999413 sq. yards to acres
491184 sq. inches to poles
957744 sq. inches to poles

LONG MEASURE.

Reduce (*a*)

4 27 m. 1 fur. 22 p. 3 yds. 1 ft. 8 in. to inches.
11 m. 2 fur. 0 p. 0 yds. 0 ft. 2 in. to inches.
46 m. 5 fur. 18 p. 4 yds. to inches.

(*b*)

19 yds. 2 ft. 4 in. to inches.
7 p. 1 yd. 1 ft. 1 in. to inches.
1 fur. 11 p. 3 yds. 1 in. to inches.

(*c*)

34023 yards to miles.
604857 yards to miles.
50721 yards to miles.

(*d*)

5544 inches to poles.
8784 inches to poles.
3331680 feet to miles.

DRY MEASURE.

Reduce (*a*)

5 55484 bush. 2 pks. 1 gal. 3 qts. 1 pt. to half-pints.
4413 qrs. 1 bush. 3 pks. 1 hf.-pt. to half-pints.
2226 bush. 1 pk. 1 gal. 2 qts. to quarts.

(*b*)

3036 qrs. 2 bush. 1 gal. to gallons.
2197 qrs. 3 bush. 3 pks. to pecks.
357 pecks 1 qt. 1 pt. 1 hf.-pt. to half-pints.

(*c*)

5112 quarts to quarters.
22424 pints to quarters.
2944 gallons to quarters.

(*d*)

2368 pints to bushels.
608 half-pints to bushels.
7552 gallons to quarters.

WINE MEASURE.

Reduce (*a*)

6 159264 pints to hogsheads.
173 gals. 3 qts. 1 pt. to gills.
10374 half-pints to gallons.

BEER MEASURE.

(*b*)

7992 quarts to hogsheads.
190 gals. 1 pt. to pints.
266 half-pints to gallons.

CUBIC MEASURE.

Reduce (*c*)

632521 c. inches to c. yards.
7 c. yds. 4 c. ft. 1100 c. in. to in.
3419994 c. inches to c. yards.

TIME.

(*d*)

62780 days to years.
7175 days to years and weeks.
12 wks. 17 hrs. 4 min. 33 sec. to sec.

PROBLEMS.

A. (1) Bought 17 yards at 1*s.* 9½*d.* per yard, 13¼ yards at 8*s.* 4*d.* per yard, and some books for 19*s.* 8*d.*; what was the whole amount?

(2) How many pounds of mutton at 6¾*d.* per lb. could be bought for £1 16*s.*?

(3) How many 12lb. parcels of sugar could be made up from 3 tons 16 cwt. 1 qr. 4 lbs.?

B. (1) A bookseller bought 25 books at 1*s.* 1½*d.* each, and 19 at 1*s.* 0½*d.* each, and sold the whole for £3 6*s.* 10*d.*; what was the profit?

(2) £18 13*s.* 8*d.* was divided equally amongst 30 men and 29 women; how much did each receive?

(3) If a man can walk one mile in fifteen minutes, how many miles would he walk in 5 days 1 hour 45 minutes, reckoning six hours to each day?

C. (1) The difference between the cost of 73lbs. of mutton at 8½*d.* per lb. and 88 lbs. of beef was £1 14*s.* 11*d.*; what did I give for the beef?

(2) A grocer paid £7 7*s.* 7*d.* for butter which cost him 11½*d.* per lb.; how many lbs. did he buy?

(3) How many 4 oz. packets of tea could be made up from 2 qrs. 23 lbs.?

D. (1) Bought half a dozen chairs at £1 19*s.* 6*d.* per dozen, 15 yards of carpet at 2*s.* 8½*d.* per yard, and 3 rugs at 5*s.* 5*d.* each; how much did I lay out?

(2) How many books at 3*s.* 6*d.* each could I purchase for £20 13*s.*?

(3) A greengrocer sold a ton of potatoes to 80 customers, each of whom bought the same quantity; how many lbs. did each purchase?

E. (1) Bought 117 yards at $5\frac{1}{4}d.$ per yard, and a pair of boots for $16s.\ 1\frac{1}{2}d.$; what was the whole amount?

(2) A dealer bought pigs at $15s.\ 3d.$ each, and in so doing spent £83 $2s.\ 3d.$; how many did he purchase?

(3) How many nine gallon casks would be emptied in supplying 3,960 persons with a pint of beer each?

F. (1) If I had £1 $16s.\ 4\frac{1}{2}d.$ left after purchasing 61 yards at $1s.\ 1\frac{1}{2}d.$ per yard, what money had I at first?

(2) Bought 77 yards for £51 $19s.\ 6d.$; what was the price per yard?

(3) If a grocer has 9 cwt. 24 lbs. of sugar, how many customers can he supply with 6 lbs. each?

G. (1) A farmer bought 13 sheep at £1 $10s.\ 6d.$ each, and 11 heifers for £3 $17s.\ 9d.$ each, and paid $9s.\ 3d.$ for carriage by rail; how much did they cost him?

(2) I spent £4 $19s.\ 5\frac{1}{2}d.$ in purchasing calico at $7\frac{3}{4}d.$ per yard; how many yards did I buy?

(3) How many reams of paper would be required for 480 books if 73 sheets were used for each book?

H. (1) Bought 101 yards at $9\frac{1}{2}d.$ per yard, and 29 collars at $2\frac{1}{2}d.$ each; what did I spend?

(2) Divide £44 $19s.\ 8\frac{1}{2}d.$ equally amongst 151 persons.

(3) How many quarter-pound packets of tea can be made from 1 cwt. 1 qr. 13 lbs. 4 oz.?

I. (1) What is the difference between the cost of 95 yards at $11\frac{1}{2}d.$ per yard and 49 yards at $2s.\ 4d.$ per yard?

(2) How many persons could receive $2s.\ 10d.$ each out of £33 $5s.\ 10d.$?

(3) 37 dozen and four half-pint bottles of stout were bottled from a cask; how many gallons did it hold?

J. (1) What will 113 yards at $1s.\ 11\frac{1}{2}d.$ per yard and 64 yards at $3\frac{3}{4}d.$ per yard amount to?

(2) £8 $5s.\ 4\frac{1}{2}d.$ is to be divided equally amongst 13 men, 16 women, and 20 children; what will each receive?

(3) How many persons could a grocer supply with $\frac{3}{4}$ of a lb. of soap each if he had 2 cwt. 3 qrs. 10 lbs.?

K. (1) What is the difference between the cost of 73¼ yards at 11*d.* per yard and 88 yards at 11½*d.* per yard?

(2) Bought 93 yards for £2 18*s.* 1½*d.*; what did one yard cost?

(3) How many gardens 25 square poles each could be made from a field of 2 acres 3 roods 35 poles?

L. (1) A bookseller bought 21 books at 9½*d.* each, 13 at 11¾*d.* each, and 17 at 1*s.* 1½*d.* each, and sold the lot at a profit of 8*s.* 6½*d.*; what did he receive for them?

(2) A farmer's rent at £2 1*s.* 6*d.* per acre amounted to £151 9*s.* 6*d.*; how many acres had he?

(3) 16 acres 30 poles of land were converted into 70 gardens; how many square poles did each contain?

M. (1) Find the total cost of 75 lbs. at 1*s.* 11½*d.* per lb., and 179 lbs. at 9*d.* per lb.

(2) Ninety-one oxen cost £1598 9*s.* 5½*d.*; what was the cost of one?

(3) How many four-ounce packets of tea could be made up from 1 qr. 15 lbs.?

N. (1) Find the difference between the cost of 101 yards at 11¾*d.* per yard and 200 yards which cost £5 18*s.* 2½*d.*

(2) Divide £7 7*s.* 7½*d.* equally amongst 73 men, 21 women, and 15 children.

(3) 103 tons 11 cwt. of coals were divided equally amongst 109 persons; how many cwts. did each receive?

O. (1) A dealer bought 11 tons of hay at £3 10*s.* per ton, and 13 tons at £3 11*s.* 6*d.* per ton, he sold the whole for £87 12*s.* 10*d.*; what did he gain?

(2) What was the cost of one ton if 121 cost £922 4*s.* 11½*d.*?

(3) How many persons could be supplied with ¾ lb. of tea each from 1 qr. 26 lb. 12 oz.?

P. (1) A farmer purchased 51 sheep at £1 3*s.* 9*d.* each, and 37 pigs at 19*s.* 11½*d.* each, and sold the lot again for £101 2*s.* 11½*d.*; what did he gain?

(2) 79 lbs. of meat cost £2 9*s.* 4½*d.*; what was the price per lb.?

(3) How many dozen silver thimbles could be made from 1 lb. 4 oz. 10 dwts. of silver, if 12 grains are used for one thimble?

STANDARD V.

BILLS.

1

(a)

			s.	d.	
13	yds.	@	0	8½	per yd.
112	,,	@	1	2½	,,
76	,,	@	3	4	,,
15	,,	@	1	3	per doz. yds.

(b)

			s.	d.	
19	yds.	@	0	7¾	per yd.
113	,,	@	0	9½	,,
25	,,	@	2	6	,,
82	,,	@	0	2½	,,

(c)

			s.	d.	
57	yds.	@	0	6½	per yd.
91	,,	@	0	8¾	,,
19	,,	@	3	11	,,
37	,,	@	0	6¾	,,

2

(a)

			s.	d.	
53	yds.	@	2	1	per yd.
17	,,	@	0	9½	,,
38	,,	@	2	4½	,,
73	,,	@	3	0	per doz. yds.

(b)

			s.	d.	
43	lbs.	@	0	11½	per lb.
101	,,	@	3	3	,,
19	,,	@	0	7¾	,,
53	,,	@	1	3	per doz. lbs.

(c)

			s.	d.	
53	lbs.	@	1	1½	per lb.
19	,,	@	3	2	,,
61	,,	@	0	11⅛	,,
72	,,	@	2	3	per doz. lbs.

3

(a)

			s.	d.	
31	lbs.	@	0	11¾	per lb.
103	,,	@	0	10½	,,
91	,,	@	1	1½	,,
23	,,	@	0	1½	,,

(b)

			s.	d.	
73	lbs.	@	1	3½	per lb.
19	,,	@	0	11½	,,
37	,,	@	0	8¾	,,
88	,,	@	1	9	per doz. lbs.

(c)

			s.	d.	
19	lbs.	@	0	11¾	per lb.
101	,,	@	0	8½	,,
91	,,	@	0	9¾	,,
79	,,	@	2	9	per doz. lbs.

4

(*a*)

			s.	d.	
73	lbs.	@	0	11½	per lb.
19	oz.	@	0	1½	per oz.
26	lbs.	@	2	0½	per lb.
29	,,	@	2	0	per doz. lb.

(*b*)

			s.	d.	
37	lbs.	@	2	0½	per lb.
103	,,	@	0	11¾	,,
95	,,	@	0	9¼	,,
17	,,	@	3	9	per doz. lbs.

(*c*)

			s.	d.	
130	lbs.	@	2	1	per lb.
91	,,	@	0	7¾	,,
71	,,	@	0	11¾	,,
23	,,	@	6	3	per doz. lbs.

5

(*a*)

			s.	d.	
13¼	lbs.	@	0	11¼	per lb.
96	,,	@	3	3	per doz. lbs.
1¼	,,	@	1	10	per lb.
91	,,	@	0	2¼	,,

(*b*)

			s.	d.	
17½	lbs.	@	0	9½	per lb.
84	,,	@	6	6	per doz. lbs.
13¼	,,	@	0	9	per lb.
26	,,	@	0	5½	,,

(*c*)

			s.	d.	
23	lbs.	@	0	11½	per lb.
1¾	,,	@	1	1	,,
39½	,,	@	0	8½	,,
97	,,	@	1	3	per doz. lbs.

6

(*a*)

			s.	d.	
4¾	yds.	@	2	11	per yd.
1¾	,,	@	15	8	,,
19	socks	@	0	10½	per pr.
53	reels	@	1	9	per doz.

(*b*)

			s.	d.	
13	socks	@	0	11½	per pr.
19¼	yds.	@	3	2	per yd.
8½	,,	@	2	9½	,,
28	,,	@	5	3	per doz. yds.

(*c*)

			s.	d.	
1¼	yds.	@	11	6	per yd.
48	,,	@	3	11	per doz. yds.
15	socks	@	1	8	per pr.
33	yds.	@	0	6¾	per yd.

7

(*a*)

			s.	d.	
19	lbs.	@	1	8½	per lb.
103	,,	@	3	2½	,,
9¾	,,	@	1	4	,,
67	,,	@	2	9	per doz. lbs.

(*b*)

			s.	d.	
17	lbs.	@	2	0¼	per lb.
9¾	,,	@	1	11	,,
13	,,	@	2	4½	,,
31	,,	@	6	3	per doz. lbs.

(*c*)

			s.	d.	
63½	yds.	@	0	11	per yd.
19¾	,,	@	1	2½	,,
15¾	,,	@	1	8	,,
53	,,	@	3	0	per doz. yds.

(a)

				s.	d.	
8	7 lbs. 8 ozs.	@	2	4	per lb.	
	33 ozs.	@	0	8	,,	
	5¾ lbs.	@	3	4	,,	
	1 cwt.	@	3	1	,,	

(b)

				s.	d.	
	13 ozs.	@	3	4	per lb.	
	7½ lbs.	@	1	10	,,	
	1 cwt.	@	0	2½	,,	
	33½ lbs.	@	0	0¾	per oz.	

(c)

			s.	d.	
1 lb. 8 ozs.	@	3	8	per lb.	
25½ lbs.	@	3	2½	,,	
13 lbs.	@	6	6	per doz. lbs.	
8 lbs. 11 ozs.	@	2	4	per lb.	

(a)

				s.	d.	
9	31¾ lbs.	@	0	8	per lb.	
	1 ton	@	13	9½	per cwt.	
	3 doz. lbs.	@	1	1½	per lb.	
	81 lbs.	@	2	0	per doz. lbs.	

(b)

			£	s.	d.	
	65 sheep	@	3	19	6	each.
	115 pigs	@	0	18	11	,,
	13 cows	@	18	10	6	,,
	31 fowls	@	1	0	0	per doz.

(c)

			s.	d.	
93 gallons	@	0	4½	per qt.	
108 bottles	@	44	6	per doz.	
35 pints	@	0	9	per qt.	
30 bottles	@	3	0	per doz.	

(a)

				s.	d.	
10	37½ yds.	@	8	8½	per yd.	
	19 doz. yds.	@	0	2¼	,,	
	115 reels	@				
		5 for	0	3½		
	21 ,,	@	1	9	per doz.	

(b)

			s.	d.	
	17 socks @		1	11	per pr.
	150 yds.	@ 10 for	5	0	
	75 packets needles				
	@ 5 packets for		0	3½	
	26 yds.	@	0	8¾	per yd.

(c)

			s.	d.	
23	lbs.	@	0	6½	per lb.
19	,,	@	0	7¼	,,
11½	,,	@	3	8	,,
49	,,	@	3	9	per doz. lbs.

(a)

				s.	d.	
11	13½ tons	@	31	6	per ton.	
	19 cwt.	@	40	0	,,	
	143 lbs.	@	2	0	per dz. lbs.	
	68 ,,	@	0	6	per lb.	

(b)

				s.	d.	
	11½ tons	@	35	8	per ton.	
	7 cwt.	@	100	0	,,	
	3 qrs.	@	0	9¾	per lb.	
	3 doz. lbs.	@	0	2¼	,,	

(c)

			s.	d.	
71 yds.	@		0	8¾	per yd.
95 ,,	@		7	6	per dz. yds.
110 pieces tape	@	10 for	0	6½	
77 yds.	@		0	3¾	per yd.

12

(a)

			s.	d.	
5⅝ tons	@	71	6	per ton.	
1½ cwt.	@	100	0	,,	
84 lbs.	@	8	6	per qr.	
66 ,,	@	0	6¾	per lb.	

(b)

			s.	d.	
11¾ galls.	@	3	6	per gall.	
19 qts.	@	1	0	,,	
36 pts.	@	0	8	per qt.	
26 galls.	@	0	7	per gall.	

(c)

			s.	d.	
79 yds.	@		11	6	per doz. yds.
55 reels	@	11 for	0	9½	
43½ yds.	@		8	6	per yd.
188 yds.	@		1	6	per doz. yds.

13

(a)

			s.	d.	
11 lbs. 8 oz.	@	2	1	per lb.	
13 oz.	@	4	0	,,	
1¾ lbs.	@	0	9	,,	
13 ,,	@	1	1¾	,,	

(b)

			s.	d.	
17 oz.	@	5	4	per lb.	
1 lb. 12 oz.	@	0	8	,,	
17¾ lbs.	@	2	2	,,	
53 ,,	@	4	6	per dz. lbs.	

(c)

			s.	d.	
19 oz.	@	4	0	per lb.	
16¾ lbs.	@	2	4	,,	
3 oz.	@	2	8	,,	
82 lbs.	@	4	6	per doz. lbs.	

14

(a)

			s.	d.	
13¼ tons	@	22	6	per ton.	
15 cwt.	@	50	0	,,	
1½ tons	@	2	6	per cwt.	
43 lbs.	@	0	4½	per lb.	

(b)

			£	s.	d.	
6¾ tons	@	11	10	0	per ton.	
15 cwt.	@	0	2	6	per qr.	
112 lbs.	@	2	0	0	per ton.	
115 ,,	@	0	1	0½	per lb.	

(c)

			s.	d.	
1¼ oz.	@	4	0	per lb.	
1½ lb.	@	0	3	per oz.	
17 lbs.	@	9	0	per doz. lbs.	
46 ,,	@	0	6¼	per lb.	

15

(a)

			s.	d.	
13 yds.	@	1	1½	per yd.	
19 ,,	@	2	4½	,,	
109 ,,	@	3	6	per dz. yds.	
6 doz. yds.	@	0	3	per yd.	
74 yds.	@	0	1¾	,,	

(b)

			s.	d.	
1¾ lbs.	@	1	8	per lb.	
105 ,,	@	0	7½	,,	
73 ,,	@	1	0½	,,	
33½ ,,	@	1	3½	,,	
37 ,,	@	2	9	per doz. lbs.	

(c)

			s.	d.	
41	yds.	@	0	3½	per yd.
112	,,	@	11	0	per doz. yds.
47	,,	@	2	3	,,
1¾	,,	@	3	4	per yd.
21	,,	@	2	0	per doz. yds.

(a)

			s.	d.	
16 65	cwt.	@	70	0	per ton.
196	lbs.	@	1	7	per qr.
57	,,	@	0	11¼	per lb.
50	,,	@	5	0	per dz. lbs.
46	,,	@	0	2½	per lb.

(b)

			£	s.	d.	
75	cwt.	@	10	12	6	per ton.
4¼	lbs.	@	0	1	8	per lb.
140	,,	@	0	4	6	per dz. lbs.
1 q. 2	lb.	@	0	1	11	per lb.
33	lbs.	@	0	0	6¼	,,

(c)

			s.	d.	
11¼	yds.	@	4	6	per doz. yds.
114	,,	@	0	8½	per yd.
68	,,	@	8	6	per doz. yds.
8 pieces 5	,,	each @	0	2½	per yd.
43	,,	@	3	0	per doz. yds.

(a)

			s.	d.	
17 13½	yds.	@	0	10	per yd.
140	,,	@	0	4½	,,
13	,,	@	12	6	per dz. yd.
1¾	,,	@	5	0	per yd.
91	,,	@	0	2½	,,

(b)

			s.	d.	
7½	lbs.	@	2	11	per lb.
115	,,	@ 5 lb. for	0	9	
52	,,	@	0	7½	,,
40	ozs.	@	4	8	,,
99	lbs.	@	2	3	per dz. lbs.

(c)

			s.	d.	
103	yds.	@ 3 for	1	11¼	
84	,,	@	0	8½	per yd.
43	,,	@	2	9¼	,,
74	,,	@	4	6	per doz. yds.
61	,,	@	0	2½	per yd.

(a)

			s.	d.	
18 104	lbs.	@	1	2	per lb.
64	,,	@	6	0	per dz. lbs.
23	,,	@	1	2	per lb.
56	,,	@	0	4½	,,
11 lbs. 15	oz.	@	0	1¼	per oz.

(b)

			s.	d.	
10½	yds.	@	0	11	per yd.
75	,,	@	12	6	per dz. yds.
15	dz. yds.	@	0	1½	per yd.
75	yds.	@	1	1½	,,
25	,,	@	2	3	per dz. yds.

(c)

			s.	d.	
83½	lbs.	@	4	6	per doz. lbs.
7	,, 10 oz.	@	0	5½	per oz.
38	,,	@	0	4½	per lb.
13	,,	@	6	6	per doz. lbs.
7	,, 7 oz.	@	3	4	per lb.

19

(a)

		s.	d.	
73½ lbs.	@	1	4	per lb.
13½ ,,	@	0	10	,,
28 oz.	@	4	0	,,
19 lbs.	@	0	7½	,,
9 lb. 8 oz.	@	0	1¼	per oz.

(b)

		£	s.	d.	
43 pigs	@	0	12	0	each.
23 sheep	@	4	3	0	,,
53 ,,	@	2	10	6	,,
19 oxen	@	22	1	0	,,
31 pigs	@	0	18	9	,,

(c)

		s.	d.	
41½ lbs.	@	0	11½	per lb.
73 ,,	@	0	6¾	,,
110 ,,	@	0	8½	,,
65 ,,	@	2	6	,,
14 lbs. 3 oz.	@	1	4	,,

20

(a)

		s.	d.	
15 yds.	@	2	3	per yd.
25 ,,	@	0	6¾	,,
42 ,,	@	2	6	dz. yds.
35 ,,	@	2	3	per yd.
137 pieces of tape	@	0	1½	each.

(b)

		s.	d.	
74 bottles	@	5	6	per doz.
55 ,,	@	18	0	,,
½ doz.	@	23	0	,,
37 bottles	@	5	6	,,
85 doz. corks	@	0	3¾	,,

(c)

		s.	d.	
142 gallons	@	0	8½	per gall.
97½ ,,	@	0	6½	,,
16 pints	@	29	4	,,
99 quarts	@	0	5	per quart.
23 pints	@	0	3¾	per pint.

21

(a)

		s.	d.	
24 ozs.	@	7	6	per lb.
19 lbs.	@	0	6½	,,
20 ozs.	@	2	6	,,
31 lbs.	@	0	3¼	,,
14 ,,	@	4	6	per dz. lbs.

(b)

		s.	d.	
43 lb.	@	12	6	per doz. lbs.
72 ,,	@	0	3¾	per lb.
31 ,,	@	13	0	per doz. lbs.
2 lb. 14 oz.	@	0	4½	per oz.
49 ,,	@	5	0	per lb.

(c)

		£	s.	d.	
3¾ tons	@	1	19	8	per ton.
468 lbs.	@	0	1	6	per doz. lbs.
13 cwt.	@	0	1	5¼	per qr.
59 tons	@	2	16	0	per ton.
17 cwt.	@	2	0	0	,,

(a)

			s.	d.	
22	40 yds.	@	4	9	per yd.
	22 ,,	@	6	9	per doz. yds.
	15 ,,	@	6	9	per yd.
	112 ,,	@	1	11½	,,
	28 ,,	@	8	0	per doz. yds.

(b)

			s.	d.	
	21 lbs.	@	2	11½	per lb.
	142 ,,	@	0	8½	,,
	39¼ ,,	@	0	3½	,,
	13 ,,	@	0	9¾	,,
	9½ ,,	@	1	0	,,

(c)

		s.	d.	
29	oz. @	4	8	per lb.
25	lbs. @	0	7¾	,,
½	cwt. @	0	3	,,
100	lbs. @	9	6	per doz. lbs.
2 lb. 9	oz. @	1	0	per lb.

(a)

			s.	d.	
23	112 yds.	@	0	11½	per yd.
	7½ ,,	@	8	5	,,
	1¾ ,,	@	18	0	per dz. yds.
	21 ,,	@	1	1¼	per yd.
	15 ,,	@	2	3	per dz. yds.

(b)

			s.	d.	
	112 lbs.	@	4	6	per dz. lbs.
	24 oz.	@	2	6	per lb.
	52¾ lbs.	@	0	10	,,
	75½ ,,	@	27	0	per dz. lbs.
	94 ,,	@	1	6	,,

(c)

		s.	d.	
27½	tons @	13	6	per ton.
19½	lbs. @	19	0	per doz. lbs.
104	cwt. @	23	4	per ton.
¾	,, @	15	4	per qr.
1 cwt. 16	lbs. @	1	6	per lb.

(a)

			£	s.	d.	
24	11¼ tons	@	3	10	10	per ton.
	5½ ,,	@	7	13	3	,,
	105 lbs.	@	0	9	0	per dz. lbs.
	73 cwt.	@	3	0	0	per ton.
	26 ,,	@	0	6	9	per cwt.

(b)

			s.	d.	
	35½ lbs.	@	11	6	per dz. lbs.
	9½ ,,	@	1	10	per lb.
150	,,	@			
	15 for		1	11	
	54 cwt.	@	50	0	per ton.
	26 lbs.	@	0	8½	per lb.

(c)

		s.	d.	
41¾	yds. @	0	9	per yd.
65	,, @	2	6	,,
103	,, @	0	11½	,,
1¾	,, @	8	6	,,
22	,, @	0	8¾	,,

PRACTICE.

	(a)	(b)	(c)
	d.	d.	d.
1	166032 @ $\frac{1}{4}$ each.	174584 @ $\frac{1}{4}$ each.	157392 @ $\frac{1}{4}$ each.
	197397 ,, $\frac{1}{4}$,,	304302 ,, $\frac{1}{4}$,,	165758 ,, $\frac{1}{4}$,,
	347154 ,, $\frac{1}{4}$,,	295255 ,, $\frac{1}{4}$,,	404766 ,, $\frac{1}{4}$,,
	(a)	(b)	(c)
	d.	d.	d.
2	82879 @ $\frac{1}{2}$ each.	354063 @ $\frac{1}{2}$ each.	309865 @ $\frac{1}{2}$ each.
	342101 ,, $\frac{1}{2}$,,	385323 ,, $\frac{1}{2}$,,	437575 ,, $\frac{1}{2}$,,
	389714 ,, $\frac{1}{2}$,,	384801 ,, $\frac{1}{2}$,,	397263 ,, $\frac{1}{2}$,,
	(a)	(b)	(c)
	d.	d.	d.
3	228144 @ $\frac{3}{4}$ each.	148421 @ $\frac{3}{4}$ each.	55349 @ $\frac{3}{4}$ each.
	235125 ,, $\frac{3}{4}$,,	389313 ,, $\frac{3}{4}$,,	293941 ,, $\frac{3}{4}$,,
	397765 ,, $\frac{3}{4}$,,	92689 ,, $\frac{3}{4}$,,	613948 ,, $\frac{3}{4}$,,
	(a)	(b)	(c)
	d.	d.	d.
4	184048 @ $\frac{1}{4}$ each.	438509 @ $\frac{1}{2}$ each.	205717 @ $\frac{3}{4}$ each.
	205125 ,, $\frac{1}{4}$,,	583477 ,, $\frac{1}{2}$,,	551621 ,, $\frac{3}{4}$,,
	494210 ,, $\frac{1}{4}$,,	679083 ,, $\frac{1}{2}$,,	579697 ,, $\frac{3}{4}$,,
	(a)	(b)	(c)
	d.	d.	d.
5	368404 @ $1\frac{1}{4}$ each.	245714 @ $1\frac{1}{4}$ each.	387270 @ $1\frac{1}{4}$ each.
	261109 ,, $1\frac{1}{4}$,,	162827 ,, $1\frac{1}{4}$,,	195469 ,, $1\frac{1}{4}$,,
	195258 ,, $1\frac{3}{4}$,,	262170 ,, $1\frac{3}{4}$,,	358122 ,, $1\frac{3}{4}$,,
	(a)	(b)	(c)
	d.	d.	d.
6	396135 @ $2\frac{1}{4}$ each.	332368 @ $2\frac{1}{4}$ each.	353488 @ $2\frac{1}{4}$ each.
	638751 ,, $2\frac{3}{4}$,,	115897 ,, $2\frac{1}{2}$,,	236925 ,, $2\frac{3}{4}$,,
	454580 ,, $3\frac{3}{4}$,,	135425 ,, $3\frac{3}{4}$,,	96834 ,, $3\frac{3}{4}$,,
	(a)	(b)	(c)
	d.	d.	d.
7	166184 @ $4\frac{1}{2}$ each.	91887 @ $4\frac{1}{2}$ each.	113338 @ $4\frac{1}{2}$ each.
	67970 ,, $6\frac{3}{4}$,,	68898 ,, $6\frac{3}{4}$,,	100539 ,, $6\frac{3}{4}$,,
	51873 ,, $7\frac{1}{2}$,,	196261 ,, $7\frac{1}{2}$,,	61189 ,, $7\frac{1}{2}$,,

8

(a)		(b)		(c)	
	d.		d.		d.
262082 @	$1\frac{1}{4}$ each.	125008 @	$2\frac{1}{4}$ each.	110938 @	$4\frac{1}{4}$ each.
203299 ,,	$1\frac{1}{2}$,,	106446 ,,	$2\frac{1}{2}$,,	54990 ,,	$6\frac{1}{4}$,,
179138 ,,	$1\frac{3}{4}$,,	103746 ,,	$3\frac{3}{4}$,,	48417 ,,	$7\frac{1}{2}$,,

9

(a)			(b)			(c)		
	s.	d.		s.	d.		s.	d.
23830 @	0	$11\frac{1}{4}$ each.	78248 @	0	$5\frac{1}{4}$ each.	695062 @	0	$6\frac{1}{4}$ each.
22556 ,,	1	2 ,,	85339 ,,	1	8 ,,	33227 ,,	1	$10\frac{1}{2}$,,
16139 ,,	1	$10\frac{1}{2}$,,	34348 ,,	0	$8\frac{3}{4}$,,	12203 ,,	1	$10\frac{1}{2}$,,

10

(a)				(b)			
	s.	d.			s.	d.	
114528 @	2	$3\frac{1}{2}$	each.	12688 @	1	$10\frac{1}{2}$	each.
56396 ,,	1	3	,,	27068 ,,	2	1	,,
30556 ,,	2	$0\frac{3}{4}$	,,	13219 ,,	2	11	,,

(c)

	s.	d.	
148416 @	2	$7\frac{1}{4}$	each.
14825 ,,	2	$9\frac{3}{4}$	,,
110168 ,,	3	$1\frac{1}{2}$	,,

11

(a)				(b)			
	s.	d.			s.	d.	
308426 @	1	6	each.	187877 @	0	$10\frac{1}{2}$	each.
89564 ,,	1	$1\frac{3}{4}$	,,	519392 ,,	3	$1\frac{1}{2}$	,,
11915 ,,	1	$10\frac{1}{2}$	,,	69952 ,,	2	$0\frac{3}{4}$	,,

(c)

	s.	d.	
350624 @	2	11	each.
13408 ,,	4	7	,,
38176 ,,	6	$10\frac{1}{2}$	,,

12

(a)				(b)			
	s.	d.			s.	d.	
60136 @	4	$4\frac{1}{2}$	each.	163268 @	4	7	each.
582112 ,,	6	3	,,	189652 ,,	7	6	,,
219848 ,,	6	8	,,	49472 ,,	7	$9\frac{3}{4}$	,,

(c)

	s.	d.	
20149 @	4	$1\frac{1}{2}$	each.
60136 ,,	4	$4\frac{1}{2}$	,,
40684 ,,	6	3	,,

13

(a)

		s.	d.	
829568	@	17	2¼	each.
96997	,,	10	5	,,
173332	,,	12	7½	,,

(b)

		s.	d.	
164342	@	12	6	each.
555064	,,	18	9	,,
403433	,,	15	7½	,,

(c)

		s.	d.	
184528	@	10	11½	each.
574019	,,	6	10½	,,
857614	,,	17	2¼	,,

14

(a)

		£	s.	d.	
4712	@	1	10	7½	each.
728011	,,	1	5	0	,,
68876	,,	2	16	3	,,

(b)

		£	s.	d.	
24082	@	0	16	0¼	each.
81364	,,	1	11	3	,,
433168	,,	2	2	2¼	,,

(c)

		£	s.	d.	
18026	@	0	15	0	each.
137752	,,	1	8	1½	,,
92264	,,	1	1	10½	,,

15

(a)

		£	s.	d.	
313648	@	2	6	10½	each.
120328	,,	7	11	10½	,,
54466	,,	16	17	6	,,

(b)

		£	s.	d.	
356336	@	4	5	11½	each.
166424	,,	5	9	4½	,,
77936	,,	11	14	4½	,,

(c)

		£	s.	d.	
815152	@	2	6	10½	each.
343216	,,	6	6	6¾	,,
694024	,,	3	18	1½	,,

16

(a)

		£	s.	d.	
530224	@	0	14	0¾	each.
1175401	,,	0	15	7½	,,
48613	,,	0	10	5	,,

(b)

		£	s.	d.	
56251	@	1	5	0	each.
203441	,,	1	10	7½	,,
1289752	,,	1	8	1½	,,

(c)

		£	s.	d.	
374762	@	3	2	6	each.
163078	,,	5	12	6	,,
27832	,,	29	10	7½	,,

(*a*)

				£	*s.*	*d.*	
17	5 tons	5 cwt. 2 qrs. 21 lbs.	@	14	0	0	per ton.
	14 ,,	14 ,, 1 ,, 24 ,,	@	11	13	4	,,
		6199 ,,	@	23	6	8	,,

(*b*)

			£	*s.*	*d.*	
11 tons	12 cwt. 2 qrs. 26 lbs.	@	11	13	4	per ton.
2 ,,	4 ,, 2 ,, 26 ,,	@	16	6	8	,,
	54120 ,,	@	4	13	4	,,

(*c*)

			£	*s.*	*d.*	
2 tons	8 cwt. 1 qr. 24 lbs.	@	11	13	4	per ton.
6 ,,	4 ,, 3 ,, 0 ,,	@	11	13	4	,,
	9960 ,,	@	23	6	8	,,

(*a*)

			£	*s.*	*d.*	
18	139600 oz.	@	0	14	0	per cwt.
2 tons	6 cwt. 2 qrs. 14 lbs.	@	0	1	3	per qr.
	79647 ,,	@	2	6	8	per ton.

(*b*)

		£	*s.*	*d.*		
	42440 oz.	@	46	13	4	per ton.
	5621 lbs.	@	0	7	0	per cwt.
30 cwt.	1 qr. 1 lb.	@	0	0	$2\frac{1}{4}$	per lb.

(*c*)

		£	*s.*	*d.*		
	27944 lbs.	@	5	16	8	per ton.
	72494 ,,	@	3	10	0	,,
	3304 ,,	@	1	5	8	per cwt.

(*a*)

			£	*s.*	*d.*	
19	53 acres 3 roods 6 poles	@	37	10	0	per acre.
	170 ,, 1 ,, 22 ,,	@	18	6	8	,,
	7999 ,,	@	1	16	8	,,

(*b*)

		£	*s.*	*d.*		
25 acres 1 rood	18 poles	@	81	13	4	per acre.
	18000 ,,	@	9	3	4	,,
7 ,, 2 ,,	30 ,,	@	3	7	6	per rood.

(*c*)

		£	*s.*	*d.*		
81 acres 1 rood	22 poles	@	37	10	0	per acre.
28 ,, 0 ,,	38 ,,	@	1	17	6	per rood.
	14294 ,,	@	3	10	0	per acre.

(*a*)

		£	*s.*	*d.*	
20	36 acres 2 roods 14 poles	@ 58	6	8	per acre.
	27332 ,,	@ 4	3	4	,,
	18 ,, 2 ,, 38 ,,	@ 2	5	10	per rood.

(*b*)

	£	*s.*	*d.*	
10 miles 4 furlongs 22 poles	@ 7	0	0	per mile.
10 ,, 6 ,, 38 ,,	@ 0	0	11½	per pole.
2640 ,,	@ 1	13	4	per mile.

(*c*)

	£	*s.*	*d.*	
24 miles 3 furlongs 27 poles	@ 1	13	4	per mile.
32533 ,,	@ 7	0	0	,,
78½ ,, 0 ,, 0 ,,	@ 0	2	7½	per furlong.

SIMPLE PROPORTION.

A. (1) If 48 lbs. cost 17*s.* 6*d.*, what will 72 lbs. cost?

(2) If £1 8*s.* 5½*d.* be given for 14 yards, what would be the cost of 16 yards?

(3) If 78 bushels cost 12 guineas, what will 91 bushels cost?

B. (1) What must be given for 33 tons, if 30 tons cost £30 10*s.* 10*d.*?

(2) If the price of £96 tons is £84, what will 104 tons cost?

(3) If 225 bushels cost £106 4*s.*, what will 250 bushels cost?

C. (1) How much must be given for 78 cwt., if 65 cwt. cost £29 13*s.* 0½*d.*?

(2) How much can be bought for £17 5*s.*, if 17 ton 2 cwt. cost £15 10*s.* 6*d.*?

(3) If 132 yards cost £7 8*s.* 7½*d.*, how much can be bought for £8 13*s.* 4½*d.*?

D. (1) How many tons can be bought for 5 guineas, if 26 tons cost £4 17*s.* 6*d.*?

(2) If 208 lbs. cost £7 12*s.* 8*d.*, how many lbs. can be bought for £11 18*s.* 6½*d.*?

(3) How many lbs. can be bought for £9 13*s.* 5*d.*, if 288 lbs. cost £7 18*s.* 3*d.*?

E. (1) If 15 tons 4 cwt. cost £16 6*s*. 2*d*., how much can be bought for £18 6*s*. 11½*d*.?

(2) If 156 yards cost £18 10*s*. 6*d*., what will 144 yards cost?

(3) If 21 tons 5 cwt. cost £18 2*s*. 8*d*., what will 15 tons cost?

F. (1) What will be the cost of 12 tons 5 cwt., if £30 5*s*. be given for 26 tons 19 cwt.?

(2) What will be the cost of 13 miles 4 furlongs, if 16 miles 4 furlongs cost £20 18*s*.?

(3) If the railway fare for 387 miles is £2 3*s*. 3¾*d*., how many miles could I travel for 19*s*. 3*d*.?

G. (1) If 39 tons 13 cwt. cost £28 3*s*. 7½*d*., how much can be bought for £15 3*s*. 5¾*d*.?

(2) What will 75 lbs. of sugar cost, if 84 lb. 6 oz. cost 17*s*. 3*d*.?

(3) The cost of 52 tons 5 cwt. was £76 0*s*. 9*d*.; what would 57 have cost?

H. (1) If 20 tons 18 cwt. cost £19 5*s*. 5½*d*., what quantity can be purchased for £17 10*s*. 5*d*.?

(2) What quantity can be bought for £14 0*s*. 7*d*., when £11 0*s*. 5½*d*. is given for 11 tons 9 cwt. 3. qrs. 8 lbs.?

(3) 800 yards cost £90 3*s*. 7¾*d*.; what did 256 yards cost?

I. (1) How many miles could I travel for 4*s*. 6½*d*., if 547½ miles cost £1 14 0¾*d*.?

(2) A piece of work can be done by 20 men in 41 days 2 hours; how many days would 15 men take to do the same? (8 hrs. per day.)

(3) How much land could be rented for £207 8*s*. 10*d*., if the rent of 98 acres is £132 0*s*. 2*d*.?

J. (1) What will 32 tons 11 cwt. cost, if £181 8*s*. 6*d*. be given for 111 tons 4 cwt. 1 qr.?

(2) How much land could be purchased for £5,000, at the rate of 180 acres 2 roods 2 poles for £8,750?

(3) If 85 tons can be carried 80 miles for £3 7*s*. 1*d*., how many tons can be carried the same distance for £5 7*s*. 4*d*.?

K. (1) If 728 lbs. of provisions last a ship's crew of 21 men 15 days, how many lbs. would 33 men require for the same time?

(2) 209 yards of carpet 29 inches wide cost £17 16*s.* 7¾*d.*; what did 44 yards of it come to?

(3) The rent of 33 houses for six months amounted to £295 7*s.*; what was the rent of nine for the same period?

L. (1) What will the interest be on £210 for six months, if the interest on £157 10*s.* for the same time is £3 17*s.* 4½*d.*?

(2) 115 passengers by an excursion train paid £36 8*s.* 4*d.*; what did 15 pay?

(3) How many books could be purchased for £7 19*s.* 6*d.*, if 70 cost £3 12*s.* 6*d.*?

M. (1) 78 trucks of coal each containing 8 tons were worth £449 11*s.* 8*d.*; how much were 72 of the same weight worth?

(2) How many miles of railway could be constructed for £857 10*s.*, if 28 miles 10 poles cost £1,393 8*s.* 9*d.*?

(3) 463 yards of carpet 29 inches wide cost £53 10*s.* 1*d.*; how much of the same width could be bought for £13 7*s.* 6½*d.*?

N. (1) If a farmer's profit on 197 a. 1 r. 31 p. is £263 7*s.* 6*d.*, when wheat is £12 per load, how many acres would give a profit of £150 10*s.*?

(2) A builder pays 35 men £69 6*s.* as a week's wages, when they work 9 hours per day; what should they receive when they only work 8 hours per day?

(3) A flock of 185 sheep is worth £530, when mutton is selling at 10*d.* per lb.; what would they be worth if the price of mutton were 2*d.* per lb. less?

O. (1) If 150 tons 19 cwt. 17 lbs. cost £290 3*s.* 9*d.*, what will 80 tons 10 cwt. 24 lbs. cost?

(2) The cost of cleaning 22 miles 7 fur. 23 poles of streets was £35 14*s.* 1¾*d.*; what length of street had a town where the expense of cleaning was £30 12*s.* 1½*d.*?

(3) A merchant bought 132 tons of coal at the rate of £154 4*s.* 7*d.* for 121 tons; what did he sell the whole for so as to make a profit of £13 14*s.*?

P. (1) What will 20½ tons cost, if 66 tons 12 cwt. 2 qrs. cost £83 4*s.*?

(2) 72 yards of cloth were cut from a piece worth £24 13*s.* 0¾*d.*, and which contained 126 yards; what must the 72 yards be sold again for to realise a profit of 19*s.* 6*d.* on the outlay?

(3) Sold 7 tons at a profit of 2 guineas on the buying price, which was at the rate of 19 tons 5 cwt. for £32 0*s.* 9*d.*; what did I receive for the 7 tons?

Q. (1) Bought 6 pieces of meat, weighing 14 lb. 12 oz. each, at the rate of 26*s.* 8*d.* for 44¼ lbs.; what did I pay?

(2) 54 tons were purchased at the rate of £9 15*s.* 10½*d.* for 15 tons 15 cwt.; for what must it be re-sold to make a profit of £1 19*s.* 6*d.*?

(3) If 7 men working 8 hours per day can complete a work in 48 days, in how many days would 12 men working the same number of hours per day complete the same?

R. (1) By selling 98 yards at the rate of 61¼ yards for £13 8*s.* 1½*d.*, I lost £2 15*s.*; what was the prime cost?

(2) The interest on £68 1*s.* 3*d.* for 2 years was £8 11*s.*; what was the interest on £60 10*s.* for same time?

(3) What was the cost of 5 yards of silk, if 8¾ yards cost £1 2*s.* 0½*d.*?

S. (1) What will be the cost of 2 tons 17 cwt. of hay, if 1 ton 13 cwt. 1 qr. cost £4 8*s.* 8*d.*?

(2) Eighteen men agreed to do some work in 23 days, working 9 hours per day; three of them did not appear, in how many days ought the work to have been finished by the rest working the same number of hours per day?

(3) If 13 acres 20 poles cost £151 6*s.* 7½*d.*, what should be given for two fields, one of which contains 6 a. 3 r. 25 poles, the other 8 a. 15 poles?

T. (1) 91 yards were purchased at the rate of 156 for £8 10*s.*; what must they be sold again for to make a profit of £1 2*s.* 1*d.*?

(2) The interest on £165 for 11 months was £7 1*s.* 10½*d.*; what was the interest on £120 for the same time?

(3) The wages of 50 men for a week when they worked 9 hours per day was £73 1*s.* 4½*d.*; what should they receive if they worked 8 hours per day?

U. (1) If 30 men could do a piece of work in 82½ hours, how many hours would 45 men take to complete the same?

(2) The cost of boarding 30 boys for 17 weeks was £129 17*s*. 5½*d*.; what was the cost for 12 weeks?

(3) What was the loss on 149 tons 14 cwt. 1 qr., which was purchased at the rate of 85 tons 11 cwt. for £155 15*s*., and sold again for £264 18*s*. 7½*d*.?

V. (1) Eighty tons of coal cost £75 12*s*. 6*d*.; what should 70 tons be sold for so as to make a profit of £4 8*s*. 6¾*d*. on the 70 tons?

(2) If 176 yards 3 quarters of carpet, 39 inches wide, cost £28 16*s*. 4*d*., what did 75 yds. 3 qrs. of the same cost?

(3) If 7 men can mow 26 a. 1 r. 30 poles in 6 days, how long would they be in mowing 11 acres 3 roods?

W. (1) If the wages of 120 men for one week amount to £163 2*s*. 6*d*. when they work 9 hours per day, how much ought they to receive for the same time when they work 8 hours per day?

(2) How many gallons could be purchased for £28 3*s*. 8*d*., if 267 gallons cost £10 11*s*. 4½*d*.?

(3) If 413 men can dig 1102 tons 10 cwt. of gravel in 3 days, how many will be required to dig 315 tons in the same time?

X. (1) If the interest on £687 10*s*. for nine months amounts to £27 3*s*. 7*d*., what ought the interest on £500 to be for the same time?

(2) What will be the cost of 7 chests of tea, each containing 1 cwt. 3 qrs. 8 lbs., if 15 cwt. 3 qrs. 21 lbs. cost £227 8*s*. 9*d*.?

(3) If 65 men working 10 hours per day could complete a work in 39 days 2 hours, how long would 91 men take to do it, working the same number of hours per day?

Y. (1) What will be the cost of 152 yards if £9 2*s*. 3*d*. be given for 171 yards?

(2) What will the carriage of 18 tons for 50 miles cost, if 15 tons 15 cwt. cost £2 0*s*. 4¾*d*. for the same distance?

(3) If eighteen men can earn £36 15*s*. in 5 days, how much ought 14 to earn in the same time?

Z. (1) If 3 cwt. 1 qr. 21 lbs. cost £12 16*s*. 2½*d*., what ought to be the price of 1 cwt. 1 qr.?

(2) What will 216 miles of road cost, if 792 miles cost £5,151 13*s*. 4*d*.?

(3) If 37 tons 16 cwt. of coal cost £34 18*s*. 3*d*., what will be the cost of 8 waggon loads, each containing 2 tons 14 cwt.?

STANDARD VI.

VULGAR FRACTIONS.

Reduce to Improper Fractions.

	(a)			(b)			(c)			(d)		
1	$3\frac{1}{4}$	$4\frac{1}{2}$	$5\frac{1}{8}$	$2\frac{7}{8}$	$4\frac{1}{3}$	$5\frac{3}{11}$	$4\frac{1}{8}$	$5\frac{1}{6}$	$7\frac{1}{8}$	$5\frac{1}{8}$	$7\frac{1}{8}$	$8\frac{1}{3}$
	$6\frac{1}{11}$	$8\frac{9}{10}$	$9\frac{1}{8}$	$8\frac{1}{3}$	$9\frac{1}{7}$	$7\frac{1}{10}$	$9\frac{1}{10}$	$8\frac{3}{8}$	$7\frac{3}{8}$	$6\frac{1}{11}$	$9\frac{1}{3}$	$10\frac{3}{7}$
	$8\frac{3}{8}$	$11\frac{1}{8}$	$11\frac{1}{3}$	$6\frac{3}{7}$	$8\frac{3}{11}$	$9\frac{4}{3}$	$8\frac{7}{8}$	$9\frac{7}{12}$	$11\frac{9}{10}$	$8\frac{3}{9}$	$9\frac{4}{11}$	$11\frac{7}{8}$

	(a)			(b)			(c)		
2	$21\frac{1}{8}$	$34\frac{1}{6}$	$17\frac{3}{11}$	$19\frac{5}{11}$	$17\frac{6}{11}$	$31\frac{7}{11}$	$91\frac{1}{13}$	$87\frac{1}{12}$	$18\frac{9}{8}$
	$19\frac{1}{12}$	$18\frac{3}{13}$	$19\frac{9}{13}$	$81\frac{3}{21}$	$91\frac{4}{31}$	$72\frac{9}{10}$	$71\frac{1}{13}$	$93\frac{3}{31}$	$72\frac{9}{10}$
	$101\frac{1}{3}$		$207\frac{3}{31}$	$312\frac{3}{10}$		$163\frac{1}{11}$	$401\frac{9}{8}$		$191\frac{7}{8}$

(d)		
$17\frac{3}{11}$	$83\frac{1}{3}$	$98\frac{7}{8}$
$29\frac{3}{13}$	$37\frac{3}{01}$	$93\frac{3}{13}$
$190\frac{7}{8}$		$131\frac{3}{11}$

Reduce to Whole or Mixed Numbers.

	(a)			(b)			(c)			(d)		
1	$\frac{9}{8}$	$\frac{8}{3}$	$\frac{9}{8}$	$\frac{18}{9}$	$\frac{8}{7}$	$\frac{7}{8}$	$\frac{13}{8}$	$\frac{6}{5}$	$\frac{10}{7}$	$\frac{20}{9}$	$\frac{11}{3}$	$\frac{10}{7}$
	$\frac{11}{5}$	$\frac{9}{7}$	$\frac{13}{8}$	$\frac{13}{6}$	$\frac{31}{8}$	$\frac{17}{9}$	$\frac{14}{7}$	$\frac{18}{11}$	$\frac{18}{11}$	$\frac{16}{11}$	$\frac{13}{4}$	$\frac{14}{7}$
	$\frac{13}{11}$	$\frac{13}{8}$	$\frac{20}{5}$	$\frac{10}{11}$	$\frac{61}{10}$	$\frac{42}{5}$	$\frac{23}{8}$	$\frac{91}{11}$	$\frac{84}{7}$	$\frac{20}{11}$	$\frac{57}{7}$	$\frac{96}{18}$

	(a)			(b)			(c)			(d)		
2	$\frac{101}{13}$	$\frac{47}{9}$	$\frac{66}{13}$	$\frac{181}{13}$	$\frac{61}{11}$	$\frac{304}{10}$	$\frac{183}{78}$	$\frac{813}{48}$	$\frac{801}{81}$	$\frac{104}{11}$	$\frac{918}{30}$	$\frac{871}{71}$
	$\frac{310}{78}$	$\frac{1647}{45}$	$\frac{801}{19}$	$\frac{413}{17}$	$\frac{710}{28}$	$\frac{116}{101}$	$\frac{310}{88}$	$\frac{713}{701}$	$\frac{150}{87}$	$\frac{1013}{31}$	$\frac{713}{78}$	$\frac{917}{92}$
	$\frac{1145}{85}$		$\frac{7113}{81}$	$\frac{1045}{70}$		$\frac{9111}{11}$	$\frac{813}{10}$	$\frac{1043}{1111}$	$\frac{913}{97}$	$\frac{8131}{713}$		$\frac{9101}{111}$

Reduce to Simple Fractions.

	(a)	(b)	(c)	(d)
1	$\frac{3}{5}$ of $\frac{3}{4}$ of $\frac{4}{5}$	$\frac{1}{2}$ of $\frac{7}{8}$ of $\frac{6}{9}$	$\frac{1}{3}$ of $\frac{5}{6}$ of $\frac{6}{11}$ of $\frac{1}{2}$	$\frac{7}{8}$ of $\frac{4}{7}$ of $\frac{3}{5}$
	$\frac{3}{4}$ of $\frac{5}{6}$ of $\frac{7}{9}$	$\frac{1}{3}$ of $1\frac{1}{2}$ of $\frac{9}{7}$	$\frac{3}{7}$ of $\frac{5}{3}$ of $\frac{7}{15}$	$\frac{3}{11}$ of $1\frac{1}{2}$ of $\frac{5}{10}$
	$\frac{3}{5}$ of $\frac{7}{8}$ of $1\frac{1}{3}$	$\frac{2}{5}$ of $1\frac{1}{3}$ of $\frac{1}{3}$ of $2\frac{1}{2}$	$\frac{1}{6}$ of $\frac{7}{11}$ of $1\frac{1}{3}$ of $3\frac{1}{5}$	$\frac{1}{7}$ of $1\frac{1}{3}$ of $5\frac{1}{4}$

	(a)	(b)	(c)	(d)
2	$\frac{1}{13}$ of $\frac{7}{15}$ of $7\frac{1}{2}$	$\frac{2}{3}$ of $\frac{3}{11}$ of $2\frac{1}{2}$ of 5	$\frac{1}{3}$ of $\frac{1}{11}$ of $\frac{7}{6}$ of $3\frac{1}{2}$	$8\frac{1}{3}$ of $\frac{3}{5}$ of $\frac{7}{8}$ of
	$\frac{1}{9}$ of $\frac{14}{15}$ of $7\frac{1}{2}$	$1\frac{1}{2}$ of $\frac{3}{10}$ of $11\frac{2}{3}$	$\frac{1}{3}$ of $\frac{9}{11}$ of $\frac{3}{5}$ of 6	$\frac{7}{13}$ of $5\frac{1}{7}$ of $\frac{1}{13}$
	$\frac{1}{9}$ of $8\frac{3}{5}$ of $\frac{4}{13}$	$\frac{7}{13}$ of $5\frac{1}{2}$ of $\frac{1}{3}$	$\frac{3}{11}$ of $\frac{1}{10}$ of $\frac{7}{13}$ of 9	$3\frac{1}{3}$ of $\frac{1}{13}$ of $\frac{4}{5}$

Find the Greatest Common Measure of

	(a)	(b)	(c)	(d)
1	26 and 108	42 and 74	63 and 129	52 and 112
	75 and 190	85 and 360	65 and 830	95 and 105
	98 and 284	49 and 91	56 and 76	99 and 176

	(a)	(b)	(c)	(d)
2	117 and 507	212 and 477	208 and 442	162 and 702
	357 and 918	519 and 1903	138 and 621	693 and 1320
	442 and 612	618 and 1339	792 and 1540	504 and 1155

	(a)	(b)	(c)
3	3025 and 1430	6897 and 2343	4845 and 2210
	3465 and 5670	2366 and 3003	2926 and 2527
	7050 and 1692	22289 and 15099	44697 and 42347

(d)

4554 and 1794
2890 and 3094
18473 and 16240

Reduce to Lowest Terms.

	(a)	(b)	(c)	(d)
1	$\frac{14}{28}$ $\frac{13}{26}$ $\frac{16}{24}$	$\frac{18}{36}$ $\frac{5}{30}$ $\frac{18}{24}$	$\frac{6}{48}$ $\frac{14}{35}$ $\frac{24}{48}$	$\frac{24}{40}$ $\frac{6}{72}$ $\frac{11}{110}$
	$\frac{12}{16}$ $\frac{13}{78}$ $\frac{30}{36}$	$\frac{10}{35}$ $\frac{6}{48}$ $\frac{8}{32}$	$\frac{14}{84}$ $\frac{24}{48}$ $\frac{12}{108}$	$\frac{33}{121}$ $\frac{16}{96}$ $\frac{64}{120}$
	$\frac{5}{40}$ $\frac{8}{21}$ $\frac{16}{40}$	$\frac{14}{35}$ $\frac{42}{49}$ $\frac{6}{54}$	$\frac{33}{48}$ $\frac{42}{49}$ $\frac{18}{81}$	$\frac{72}{88}$ $\frac{91}{98}$ $\frac{33}{108}$

	(a)	(b)	(c)	(d)
2′	$\frac{65}{200}$ $\frac{510}{1005}$	$\frac{42}{112}$ $\frac{318}{477}$	$\frac{214}{1177}$ $\frac{324}{756}$	$\frac{693}{1089}$ $\frac{200}{550}$
	$\frac{357}{918}$ $\frac{442}{612}$	$\frac{693}{1320}$ $\frac{756}{1008}$	$\frac{324}{945}$ $\frac{693}{792}$	$\frac{448}{784}$ $\frac{357}{918}$
	$\frac{209}{1265}$ $\frac{1717}{7171}$	$\frac{714}{1045}$ $\frac{1617}{1649}$	$\frac{1313}{3131}$ $\frac{1044}{1233}$	$\frac{1331}{3993}$ $\frac{1003}{1770}$

Find the Least Common Multiple of

	(a)	(b)	(c)	(d)
1	8 10 15 72	6 18 9 45	9 40 15 45	10 7 84 40
	7 21 32 14	11 22 10 12	12 45 16 48	11 44 33 8
	9 12 21 18	3 18 24 8	8 12 15 64	4 10 84 7

	(a)	(b)	(c)
2	102 13 78 45 20	18 72 81 93 216	72 120 180 126
	84 36 72 400 15	38 55 77 33 57	36 198 15 95 230
	95 75 15 350 33	145 95 102 90 36	105 72 325 54 180

Reduce to Fractions with Common Denominator.

(a)	(b)	(c)	(d)
$\frac{3}{8}$ $\frac{7}{12}$ $\frac{9}{14}$ $\frac{1}{10}$	$\frac{9}{20}$ $\frac{11}{12}$ $\frac{3}{8}$ $\frac{7}{15}$	$\frac{7}{10}$ $\frac{9}{20}$ $\frac{8}{35}$ $\frac{11}{12}$	$\frac{11}{12}$ $\frac{7}{40}$ $\frac{9}{50}$ $\frac{19}{20}$
$\frac{1}{20}$ $\frac{5}{8}$ $\frac{7}{30}$ $\frac{1}{14}$	$\frac{3}{14}$ $\frac{11}{30}$ $\frac{7}{25}$ $\frac{11}{12}$	$\frac{4}{11}$ $\frac{7}{20}$ $\frac{3}{22}$ $\frac{3}{5}$	$\frac{9}{11}$ $\frac{9}{20}$ $\frac{1}{18}$ $\frac{3}{16}$
$\frac{4}{15}$ $\frac{7}{60}$ $\frac{13}{18}$ $\frac{3}{5}$	$\frac{9}{16}$ $\frac{5}{8}$ $\frac{19}{35}$ $\frac{11}{40}$	$\frac{3}{52}$ $\frac{11}{14}$ $\frac{13}{18}$ $\frac{7}{30}$	$\frac{11}{30}$ $\frac{7}{10}$ $\frac{7}{45}$ $\frac{5}{9}$

ADDITION.

	(a)	(b)	(c)	(d)
1	$\frac{1}{2}+\frac{1}{3}+\frac{2}{6}$	$\frac{3}{4}+\frac{1}{3}+\frac{4}{5}+1\frac{1}{12}$	$\frac{3}{5}+\frac{2}{7}+2\frac{5}{21}+1\frac{7}{12}$	$\frac{4}{7}+1\frac{9}{14}+2\frac{3}{10}$
	$\frac{3}{5}+\frac{7}{20}+\frac{11}{15}+2\frac{1}{17}$	$1\frac{1}{3}+1\frac{3}{20}+\frac{1}{3}+2\frac{4}{15}$	$\frac{3}{11}+2\frac{7}{20}+1\frac{13}{14}+\frac{1}{8}$	$1\frac{1}{10}+1\frac{19}{20}+\frac{7}{24}+\frac{3}{5}$
	$\frac{3}{7}+\frac{5}{6}+1\frac{1}{30}+\frac{1}{8}$	$\frac{4}{12}+1\frac{13}{20}+\frac{1}{8}+1\frac{7}{10}$	$\frac{5}{8}+1\frac{1}{30}+1\frac{13}{60}+\frac{3}{10}$	$1\frac{1}{15}+1\frac{13}{30}+\frac{23}{75}+1\frac{11}{30}$

	(a)	(b)	(c)	(d)
2	$3\frac{1}{4}+1\frac{1}{4}+5\frac{3}{8}$	$7\frac{3}{5}+11\frac{1}{8}+9\frac{1}{10}$	$8\frac{1}{7}+11\frac{1}{21}+3\frac{1}{49}$	$7\frac{3}{10}+8\frac{3}{8}+9\frac{11}{15}$
	$5\frac{1}{12}+\frac{13}{40}+9\frac{1}{16}$	$11\frac{1}{16}+\frac{3}{32}+7\frac{1}{80}$	$7\frac{3}{8}+11\frac{1}{12}+14\frac{1}{25}$	$9\frac{3}{8}+\frac{24}{51}+1\frac{1}{80}$
	$2\frac{3}{15}+\frac{17}{96}+11\frac{1}{20}$	$5\frac{1}{20}+\frac{1}{80}+\frac{1}{8}$ of $\frac{4}{5}$	$\frac{1}{20}+\frac{16}{35}+\frac{3}{5}$ of $\frac{1}{21}$	$13\frac{5}{16}+\frac{1}{12}+\frac{3}{5}$ of $\frac{5}{8}$

SUBTRACTION.

	(a)	(b)	(c)	(d)
1	$\frac{11}{12}-\frac{3}{4}$	$\frac{1}{10}-\frac{1}{20}$	$\frac{3}{8}-\frac{4}{15}$	$1\frac{1}{2}-\frac{3}{8}$
	$1\frac{7}{15}-\frac{1}{30}$	$\frac{5}{8}-\frac{5}{12}$	$1\frac{11}{18}-1\frac{4}{15}$	$\frac{13}{15}-\frac{3}{8}$
	$\frac{19}{20}-\frac{3}{8}$	$1\frac{9}{11}-\frac{2}{3}$	$\frac{7}{8}-\frac{5}{9}$	$\frac{31}{35}-\frac{3}{40}$

	(a)	(b)	(c)
2	$1\frac{3}{4}-\frac{1}{2}$	$2\frac{3}{8}-\frac{2}{7}$	$3\frac{1}{6}-\frac{3}{7}$
	$11\frac{1}{8}-2\frac{5}{9}$	$17\frac{1}{12}-2\frac{3}{4}$	$8\frac{1}{2}-7\frac{3}{8}$
	$(\frac{3}{8}$ of $\frac{2}{7})-(\frac{1}{8}$ of $\frac{3}{9})$	$(\frac{8}{9}$ of $\frac{3}{4})-(1\frac{5}{12}$ of $\frac{3}{8})$	$(\frac{3}{11}$ of $1\frac{1}{12})-(\frac{1}{8}$ of $2\frac{4}{25})$

(d)

$2\frac{6}{11}-\frac{7}{10}$

$1\frac{1}{7}-\frac{2}{4}$

$(\frac{7}{8}$ of $\frac{4}{5})-(\frac{6}{11}$ of $\frac{3}{8})$

MULTIPLICATION.

	(a)	(b)	(c)	(d)
1	$\frac{3}{5}\times\frac{4}{7}\times\frac{5}{21}$	$\frac{7}{8}\times\frac{4}{5}\times\frac{12}{10}$	$1\frac{1}{10}\times1\frac{1}{12}\times\frac{4}{11}$	$\frac{3}{8}\times\frac{12}{17}\times\frac{12}{35}$
	$\frac{2}{7}\times\frac{14}{15}\times\frac{3}{11}$	$\frac{3}{11}\times\frac{11}{18}\times\frac{7}{12}$	$\frac{2}{9}\times\frac{3}{14}\times\frac{7}{8}$	$\frac{7}{12}\times\frac{3}{7}\times1\frac{1}{2}$
	$\frac{8}{5}\times1\frac{1}{2}\times3\frac{2}{3}$	$\frac{5}{10}\times4\frac{2}{3}\times\frac{24}{7}$	$3\frac{1}{3}\times1\frac{1}{12}\times\frac{12}{23}$	$1\frac{1}{12}\times5\frac{1}{4}\times\frac{10}{11}$
	(a)	(b)	(c)	(d)
2	$(2\frac{1}{5}+\frac{1}{5})\times\frac{24}{35}$	$\frac{3}{4}\times(\frac{1}{6}+1\frac{1}{2})$	$(1\frac{1}{2}+\frac{1}{3})\times\frac{12}{15}$	$(\frac{7}{8}+1\frac{1}{7})\times\frac{7}{11}$
	$(\frac{1}{3}-\frac{1}{6})\times\frac{3}{8}$	$(\frac{3}{5}-\frac{1}{10})\times\frac{7}{11}$	$\frac{7}{8}\times(\frac{3}{4}-\frac{3}{8})$	$\frac{7}{10}\times(\frac{1}{3}-\frac{5}{11})$
	$(1\frac{1}{2}-\frac{1}{2})\times\frac{15}{32}$	$\frac{3}{8}$ of $\frac{4}{5}\times(\frac{7}{8}-\frac{1}{12})$	$(\frac{1}{8}+\frac{1}{8})\times(\frac{1}{8}-\frac{1}{6})$	$(\frac{1}{18}+\frac{2}{9})\times(\frac{5}{6}-\frac{2}{5})$

DIVISION.

	(a)	(b)	(c)	(d)
1	$\frac{6}{11}\div\frac{2}{32}$	$\frac{9}{10}\div\frac{12}{85}$	$\frac{7}{8}\div1\frac{1}{16}$	$\frac{2}{11}\div\frac{1}{35}$
	$5\frac{1}{8}\div2\frac{7}{9}$	$1\frac{1}{12}\div3\frac{3}{8}$	$1\frac{1}{5}\div2\frac{1}{2}$	$1\frac{2}{7}\div1\frac{1}{5}$
	$1\frac{4}{15}\div8\frac{2}{3}$	$17\frac{1}{2}\div7\frac{2}{5}$	$1\frac{1}{18}\div2\frac{2}{3}$	$7\frac{5}{12}\div2\frac{5}{8}$
	(a)	(b)	(c)	(d)
2	$\frac{1}{4}$ of $\frac{2}{3}\div1\frac{7}{12}$	$(1\frac{1}{2}+\frac{3}{8})\div\frac{5}{6}$	$1\frac{1}{16}\div(\frac{1}{2}+\frac{3}{8})$	$1\frac{1}{16}\div(1\frac{5}{12}-\frac{3}{20})$
	$(\frac{1}{9}+\frac{3}{5})\div1\frac{7}{15}$	$(\frac{7}{8}-\frac{1}{10})\div\frac{13}{40}$	$(1\frac{7}{11}-\frac{1}{22})\div1\frac{11}{11}$	$7\frac{1}{8}\div(\frac{1}{8}+1\frac{7}{72})$
	$(1\frac{1}{2}-\frac{3}{8})\div\frac{3}{4}$ of $1\frac{7}{12}$	$(1\frac{3}{4}-\frac{7}{8})\div1\frac{7}{12}$	$(\frac{3}{4}-\frac{3}{8})\div\frac{5}{16}$	$(\frac{2}{3}-1\frac{3}{8})\div3\frac{2}{9}$

Simplify,—1

(a)	(b)	(c)	(d)
$\frac{\frac{1}{2}\quad 2\frac{1}{2}\quad 7}{\frac{2}{3}\quad 3\frac{1}{3}\quad 1\frac{5}{11}}$	$\frac{\frac{3}{4}\quad 3\frac{1}{2}\quad 8}{\frac{4}{5}\quad 5\frac{1}{2}\quad 5\frac{3}{5}}$	$\frac{\frac{2}{3}\quad 1\frac{1}{2}\quad 9}{1\frac{1}{9}\quad 1\frac{2}{7}\quad 3\frac{2}{3}}$	$\frac{\frac{5}{6}\quad 7\frac{1}{2}\quad 11}{1\frac{1}{9}\quad 8\frac{1}{3}\quad 4\frac{2}{5}}$
$\frac{3}{2\frac{2}{3}}$ of $\left\{\frac{3}{5}\div\frac{15}{16}\right\}$	$\left\{\frac{3\frac{1}{2}}{7}\times\frac{\frac{1}{2}}{\frac{1}{3}}\right\}\div\frac{4\frac{1}{2}}{5}$	$\frac{4\frac{2}{5}}{2\frac{2}{3}}\div\frac{1}{5}$ of $\frac{3\frac{1}{2}}{7}$	$\frac{7}{3\frac{1}{2}}\div\frac{3}{4}$ of $\frac{7}{3\frac{1}{2}}$
$\frac{11\frac{1}{2}}{7\frac{1}{2}-3\frac{3}{4}}$	$\frac{\frac{3}{5}+\frac{4}{5}}{\frac{2}{7}+\frac{1}{8}+\frac{3}{14}}$	$\frac{\frac{8}{9}-\frac{3}{5}}{\frac{3}{4}\text{ of }\frac{4}{5}\text{ of }4\frac{2}{5}}$	$\frac{1\frac{1}{2}-\frac{7}{8}}{\frac{3}{4}+\frac{7}{8}\text{ of }\frac{4}{5}}$

2 (a) $6+\dfrac{7}{\frac{1}{3}-\frac{2}{15}}$ $\dfrac{5\frac{1}{3}\text{ of }\frac{7}{8}}{\frac{1}{2}+\frac{1}{3}+\frac{1}{4}}$ $\dfrac{19}{\frac{1}{10}\text{ of }\left\{\dfrac{3\frac{1}{2}}{\frac{1}{2}+\frac{1}{3}+\frac{1}{10}}\right\}}$

(b) $8-\dfrac{\frac{1}{2}}{\frac{2}{3}+\frac{1}{10}}$ $\dfrac{1\frac{1}{2}\text{ of }9\frac{1}{3}}{\frac{17}{20}-\frac{1}{8}}$ $\dfrac{100}{\frac{2}{3}+\frac{1}{8}+3\frac{1}{3}}$

(c) $11+\dfrac{\frac{1}{3}-\frac{1}{8}}{\frac{3}{5}\text{ of }\frac{5}{21}}$ $\dfrac{3\frac{1}{2}}{\frac{1}{7}+\frac{2}{9}}\text{of}\dfrac{3\frac{1}{3}}{\frac{1}{11}+\frac{1}{3}}$ $\dfrac{8}{3+\frac{4}{2\frac{2}{3}}}$

(d) $13-\dfrac{3\frac{1}{2}}{\frac{1}{7}+\frac{5}{8}+\frac{27}{20}}$ $1\frac{1}{2}\text{ of }\left\{\dfrac{\frac{1}{2}+\frac{3}{5}}{\frac{2}{10}+\frac{7}{8}}\right\}$ $\dfrac{20}{\frac{7}{8}-\dfrac{2}{3\frac{1}{2}}}$

REDUCTION.

Find the value of,—

1 (a) $£1\frac{7}{12}$ $£\frac{3}{8}$ $\frac{5}{24}s.$
$\frac{4}{5}$ of $\frac{3}{4}$ of £7 10*s.*
$\frac{3}{8}$ of a ton; $\frac{5}{14}$ of a cwt.

(b) $\frac{3}{16}s.$ $£\frac{7}{8}$ $£\frac{9}{40}$ $\frac{7}{24}s.$
$\frac{3}{8}$ of $1\frac{2}{3}$ of $1\frac{2}{7}$ of £7
$\frac{3}{40}$ of acre $\frac{1}{16}$ of a ton.

(c) $\frac{3}{8}s.+£\frac{5}{12}+\frac{7}{8}$ of 5*s.*
$\frac{1}{28}$ of a ton$+\frac{3}{14}$ cwt.
$\frac{3}{5}$ of $\frac{7}{12}$ of 10 days.

(d) $£\frac{7}{12}+\frac{9}{14}$ of 10*s.*+6*d.*
$\frac{3}{14}$ cwt.$+\frac{5}{14}$ of 3 qrs.
$\frac{5}{11}$ of $2\frac{2}{3}$ of 18 acres.

2 (a) $\frac{3}{8}s.+£\frac{5}{12}+\frac{7}{8}$ of 5*s.*
$\frac{1}{28}$ of a ton$+\frac{3}{14}$ cwt.
$\frac{3}{5}$ of $\frac{7}{12}$ of 10 days.

(b) $£\frac{7}{12}+\frac{9}{14}$ of 10*s.*+6*d.*
$\frac{3}{14}$ cwt.$+\frac{5}{14}$ of 3 qrs.
$\frac{5}{11}$ of $2\frac{2}{3}$ of 18 acres.

(c) $\frac{3}{8}$ of 7*s.* 6*d.*$+1\frac{1}{4}$ of £10
$1\frac{3}{4}$ cwt.$+\frac{5}{14}$ qr.+13 lbs.
$\frac{5}{8}$ of $\frac{3}{4}$ of $\frac{10}{21}$ of 8 tons.

(d) $\frac{3}{7}$ of 5*s.* 3*d.*$+\frac{5}{8}$ of 10*s.*
$\frac{4}{5}$ of ton$+\frac{1}{25}$ of 5 qrs.
$\frac{6}{7}$ of $\frac{5}{13}$ of 13 tons 10 cwt.

Reduce,—

3 (a) 5*s.* 8*d.* to the frac. of a £
$7\frac{3}{4}d.$,, ,, 2*s.* 6*d.*
£1 11*s.* 6*d.* ,, ,, £5.

(b) 3*s.* 4*d.* to the frac. of £2.
$9\frac{1}{2}d.$,, ,, 5*s.*
£1 9*s.* $4\frac{1}{2}d.$,, ,, £7 10*s.*

(c) 8*s.* to the frac. of £1 10*s.*
3*s.* $1\frac{1}{2}d.$,, ,, 7*s.* 6*d.*
£2 17*s.* $1\frac{1}{2}d.$,, ,, £5.

MULTIPLICATION.

	(a)	(b)	(c)	(d)
1	$\frac{3}{5}\times\frac{4}{7}\times\frac{5}{21}$	$\frac{7}{8}\times\frac{4}{5}\times\frac{5}{16}$	$\frac{1}{10}\times\frac{1}{12}\times\frac{4}{11}$	$\frac{3}{8}\times\frac{1}{17}\times\frac{12}{35}$
	$\frac{3}{7}\times\frac{14}{15}\times\frac{3}{11}$	$\frac{3}{11}\times\frac{11}{18}\times\frac{7}{12}$	$\frac{3}{5}\times\frac{3}{14}\times\frac{7}{8}$	$\frac{7}{12}\times\frac{3}{7}\times\frac{11}{15}$
	$\frac{8}{9}\times1\frac{1}{4}\times3\frac{3}{8}$	$\frac{3}{10}\times4\frac{2}{3}\times\frac{9}{16}$	$3\frac{1}{3}\times1\frac{1}{12}\times\frac{12}{25}$	$\frac{11}{12}\times5\frac{1}{3}\times\frac{10}{11}$

	(a)	(b)	(c)	(d)
2	$(2\frac{1}{5}+\frac{1}{5})\times\frac{24}{25}$	$\frac{3}{4}\times(\frac{1}{5}+1\frac{1}{4})$	$(1\frac{1}{12}+\frac{1}{3})\times\frac{12}{15}$	$(\frac{7}{8}+1\frac{1}{7})\times\frac{7}{11}$
	$(\frac{1}{3}-\frac{1}{5})\times\frac{3}{8}$	$(\frac{3}{4}-\frac{1}{10})\times\frac{7}{11}$	$\frac{7}{8}\times(\frac{3}{4}-\frac{3}{8})$	$\frac{7}{10}\times(\frac{1}{3}-\frac{3}{11})$
	$(1\frac{1}{12}-\frac{1}{3})\times\frac{12}{25}$	$\frac{3}{8}$ of $\frac{4}{5}\times(\frac{7}{8}-\frac{1}{12})$	$(\frac{1}{8}+\frac{1}{3})\times(\frac{1}{3}-\frac{1}{5})$	$(\frac{1}{18}+\frac{2}{9})\times(\frac{5}{8}-\frac{2}{3})$

DIVISION.

	(a)	(b)	(c)	(d)
1	$\frac{5}{11}\div\frac{5}{22}$	$\frac{9}{10}\div\frac{12}{25}$	$\frac{7}{8}\div\frac{14}{15}$	$\frac{3}{11}\div\frac{12}{35}$
	$5\frac{1}{3}\div2\frac{2}{7}$	$1\frac{1}{12}\div3\frac{3}{8}$	$1\frac{1}{15}\div2\frac{1}{5}$	$1\frac{2}{7}\div1\frac{1}{14}$
	$1\frac{1}{13}\div8\frac{2}{3}$	$17\frac{1}{2}\div7\frac{2}{5}$	$1\frac{1}{8}\div2\frac{2}{5}$	$7\frac{5}{12}\div2\frac{5}{8}$

	(a)	(b)	(c)	(d)
2	$\frac{1}{4}$ of $\frac{2}{5}\div1\frac{7}{12}$	$(1\frac{1}{2}+\frac{3}{5})\div\frac{5}{6}$	$1\frac{1}{15}\div(\frac{1}{2}+\frac{3}{8})$	$1\frac{1}{12}\div(1\frac{5}{12}-\frac{3}{20})$
	$(\frac{1}{6}+\frac{3}{5})\div1\frac{7}{15}$	$(\frac{7}{8}-\frac{1}{10})\div1\frac{13}{40}$	$(1\frac{7}{11}-\frac{1}{2\frac{1}{2}})\div1\frac{1}{11}$	$7\frac{1}{8}\div(\frac{1}{8}+1\frac{7}{12})$
	$(1\frac{1}{12}-\frac{3}{8})\div\frac{3}{4}$ of $1\frac{7}{12}$	$(1\frac{3}{4}-\frac{7}{8})\div1\frac{7}{12}$	$(\frac{3}{4}-\frac{3}{8})\div1\frac{5}{6}$	$(\frac{3}{5}-\frac{3}{18})\div3\frac{2}{5}$

Simplify,—1

(a)	(b)	(c)	(d)
$\frac{\frac{1}{2}\quad 2\frac{1}{2}\quad 7}{\frac{2}{4}\quad 3\frac{1}{2}\quad 1\frac{3}{11}}$	$\frac{\frac{2}{3}\quad 3\frac{1}{2}\quad 8}{\frac{4}{6}\quad 5\frac{1}{2}\quad 5\frac{2}{3}}$	$\frac{\frac{2}{3}\quad 1\frac{1}{2}\quad 9}{\frac{2}{10}\quad 1\frac{2}{7}\quad 3\frac{2}{3}}$	$\frac{\frac{4}{6}\quad 7\frac{1}{2}\quad 11}{\frac{4}{10}\quad 8\frac{1}{3}\quad 4\frac{2}{5}}$
$\frac{3}{2\frac{1}{3}}$ of $\left\{\frac{3}{5}\div\frac{15}{16}\right\}$	$\left\{\frac{3\frac{1}{2}}{7}\times\frac{\frac{1}{2}}{\frac{1}{3}}\right\}\div\frac{4\frac{1}{2}}{5}$	$\frac{4\frac{2}{3}}{2\frac{2}{3}}\div\frac{1}{3}$ of $\frac{3\frac{1}{2}}{7}$	$\frac{7}{3\frac{1}{2}}\div\frac{3}{4}$ of $\frac{7}{3\frac{1}{2}}$
$\frac{11\frac{1}{2}}{7\frac{1}{2}-3\frac{3}{4}}$	$\frac{\frac{3}{5}+\frac{4}{2\frac{1}{5}}}{\frac{3}{7}+\frac{1}{5}+\frac{3}{1\frac{1}{4}}}$	$\frac{\frac{8}{9}-\frac{3}{5}}{\frac{3}{4}\text{ of }\frac{2}{5}\text{ of }4\frac{2}{3}}$	$\frac{1\frac{1}{2}-\frac{7}{8}}{\frac{3}{4}+\frac{7}{8}\text{ of }\frac{4}{5}}$

2 (a) $6+\dfrac{7}{\frac{1}{3}-\frac{3}{25}}$ $\dfrac{5\frac{1}{3}\text{ of }\frac{7}{8}}{\frac{1}{2}+\frac{1}{3}+\frac{1}{4}}$ $\dfrac{19}{\frac{1}{10}\text{ of }\left\{\dfrac{3\frac{1}{2}}{\frac{1}{2}+\frac{1}{3}+\frac{1}{10}}\right\}}$

(b) $8-\dfrac{\frac{1}{2}}{\frac{3}{4}+\frac{1}{10}}$ $\dfrac{1\frac{1}{3}\text{ of }9\frac{1}{3}}{\frac{17}{10}-\frac{1}{3}}$ $\dfrac{100}{\frac{3}{8}+\frac{1}{6}+3\frac{1}{3}}$

(c) $11+\dfrac{\frac{1}{3}-\frac{1}{8}}{\frac{3}{5}\text{ of }\frac{5}{21}}$ $\dfrac{3\frac{1}{2}}{\frac{1}{7}+\frac{6}{8}}\text{of}\dfrac{3\frac{4}{5}}{\frac{1}{11}+\frac{4}{5}}$ $\dfrac{8}{3+\frac{4}{2\frac{1}{3}}}$

(d) $13-\dfrac{3\frac{1}{2}}{\frac{1}{7}+\frac{5}{8}+\frac{3}{20}}$ $1\frac{1}{2}\text{ of }\left\{\dfrac{\frac{1}{3}+\frac{2}{3}}{\frac{3}{10}+\frac{7}{8}}\right\}$ $\dfrac{20}{\frac{7}{8}-\dfrac{2}{3\frac{1}{2}}}$

REDUCTION.

Find the value of,—

1 (a) $£\frac{7}{12}$ $£\frac{5}{8}$ $\frac{4}{25}s.$
$\frac{4}{6}$ of $\frac{3}{4}$ of £7 10*s.*
$\frac{5}{8}$ of a ton; $\frac{5}{14}$ of a cwt.

(b) $£\frac{3}{8}$ $£\frac{9}{10}$ $\frac{9}{16}s.$
$\frac{1}{10}$ of $\frac{5}{6}$ of $\frac{3}{4}$ of £20
$\frac{7}{12}$ of 3 cwt.; $\frac{5}{8}$ of 3 cwt.

(c) $\frac{3}{16}s.$ $£\frac{7}{8}$ $£\frac{9}{40}$ $\frac{7}{24}s.$
$\frac{3}{8}$ of $\frac{1}{12}$ of $\frac{2}{14}$ of £7
$\frac{3}{40}$ of acre $\frac{3}{56}$ of a ton.

(d) $£\frac{7}{24}$ $£\frac{3}{64}$ $\frac{1}{16}s.$
$\frac{5}{8}$ of $1\frac{1}{12}$ of £16 2*s.* 8*d.*
$\frac{1}{8}$ of $\frac{2}{7}$ of 3 cwt.

2 (a) $\frac{3}{8}s.+£\frac{5}{12}+\frac{7}{8}$ of 5*s.*
$\frac{1}{28}$ of a ton $+\frac{3}{14}$ cwt.
$\frac{3}{5}$ of $\frac{7}{12}$ of 10 days.

(b) $£\frac{7}{12}+\frac{9}{24}$ of 10*s.*$+6d.$
$\frac{3}{14}$ cwt.$+\frac{5}{14}$ of 3 qrs.
$\frac{5}{11}$ of $\frac{23}{43}$ of 18 acres.

(c) $\frac{3}{8}$ of 7*s.* 6*d.*$+\frac{1}{48}$ of £10
$1\frac{3}{4}$ cwt.$+\frac{5}{14}$ qr.$+13$ lbs.
$\frac{4}{8}$ of $\frac{3}{4}$ of $\frac{1}{21}$ of 8 tons.

(d) $\frac{3}{7}$ of 5*s.* 3*d.*$+\frac{5}{8}$ of 10*s.*
$\frac{4}{5}$ of ton $+\frac{1}{2}$ of 5 qrs.
$\frac{9}{7}$ of $\frac{5}{13}$ of 13 tons 10 cwt.

Reduce,—

3 (a) 5*s.* 8*d.* to the frac. of a £
$7\frac{3}{4}d.$,, ,, 2*s.* 6*d.*
£1 11*s.* 6*d.* ,, ,, £5.

(b) 3*s.* 4*d.* to the frac. of £2.
$9\frac{1}{2}d.$,, ,, 5*s.*
£1 9*s.* $4\frac{1}{2}d.$,, ,, £7 10*s.*

(c) 8*s.* to the frac. of £1 10*s.*
3*s.* $1\frac{1}{2}d.$,, ,, 7*s.* 6*d.*
£2 17*s.* $1\frac{1}{2}d.$,, ,, £5.

H. (1) How many suits, each containing $5\frac{3}{8}$ yds., could be cut from a piece of cloth measuring $64\frac{1}{2}$ yds.?

(2) Find the sum of money of which 5*s.* 6*d.* is $\frac{3}{10}$.

(3) A pile is driven $\frac{1}{4}$ of its length into the mud, $\frac{1}{2}$ is in the water and six feet is above water; what is its length?

I. (1) A man spends $\frac{3}{4}$ of his yearly income in housekeeping, &c., gives $\frac{1}{10}$ in charity, and puts by £50; what is his income?

(2) How long will *A*, *B* and *C* take to build a wall, which *A* alone could build in seven days, *B* in eight days, and *C* in 10 days?

(3) Simplify, $\frac{\frac{1}{2}+\frac{1}{8}+\frac{1}{10}}{13\frac{1}{8}-\frac{7}{20}}$

J. (1) $\frac{7}{8}$ of $\frac{5}{12}$ of a business is worth £150; what is the whole worth?

(2) $\frac{3}{8}$ of a man's wages are spent in grocery, $\frac{1}{4}$ in meat, and $\frac{1}{10}$ for firing, &c., he then has 3*s.* 6*d.* left; what does he get per week?

(3) If land is worth £45$\frac{1}{8}$ per acre, what would be the cost of $35\frac{3}{5}$ acres?

K. (1) Take $\frac{3}{11}$ of $\frac{5}{21}$ of 11 guineas from $\frac{9}{10}$ of 3 ten pound notes.

(2) Simplify, $\frac{1\frac{1}{2}-\frac{7}{10}}{7\frac{1}{8}-1\frac{1}{12}} \times \frac{4\frac{1}{2}}{1\frac{1}{8}}$

(3) *A* and *B* together can do a piece of work in 14 days, *C* could do the same alone in 20 days, and *A* in 25 days; how long would *B* take to do it by himself? and how long would the three together take to do it?

DECIMALS.

Express as Vulgar Fractions in Lowest Terms.

(a)	(b)	(c)	(d)
·5; ·05; ·25	·8; ·04; ·01	·4; ·12; ·075	·6; ·34; ·014
·012; ·0512	·075; ·008	·045; ·0435	·105; ·95; ·045
3·5; 14·05125	11·25; 13·0125	8·025; 23·05	3·325; 93·005

Express as Decimals.

(a)	(b)	(c)	(d)
$\frac{1}{2}$ $\frac{3}{5}$ $\frac{3}{8}$	$\frac{9}{10}$ $\frac{3}{4}$ $\frac{13}{40}$	$\frac{7}{8}$ $\frac{5}{64}$ $\frac{3}{25}$	$\frac{1}{25}$ $\frac{1}{4}$ $\frac{7}{10}$
$\frac{3}{4}$ $\frac{5}{8}$ $\frac{3}{25}$	$\frac{11}{20}$ $\frac{9}{25}$ $\frac{7}{25}$	$\frac{11}{25}$ $\frac{9}{1000}$ $\frac{11}{20}$	$\frac{23}{40}$ $\frac{11}{25}$ $\frac{19}{20}$
$2\frac{3}{125}$ $4\frac{1}{20}$ $1\frac{3}{4}$	$3\frac{1}{10}$ $9\frac{7}{8}$ $5\frac{1}{20}$	$7\frac{3}{125}$ $8\frac{11}{25}$ $3\frac{3}{50}$	$9\frac{3}{10}$ $1\frac{7}{25}$ $3\frac{3}{40}$

ADDITION.

	(a)	(b)	(c)	(d)
1	·8075	75·005	·0325	·7025
	·008	·075	35·008	60·075
	2·57	8·954	·875	·905
	13·809	·0375	5·913	8·075
	·0585	35·5025	36·0575	34·7025

	(a)	(b)	(c)	(d)
2	70·058	35·075	75·008	75·0135
	19·5725	·085	108·015	·07235
	·0835.	19·5235	·0735	18·05
	25·758	·0725	9·50125	·0725
	·0725	84·9155	·00325	103·51235

3 (*a*) Add together,—five tenths; 74 thousandths; one and seven tenths; 59 and 35 ten thousandths; 15 and 75 hundredths.

(*b*) Find the sum of,—one and 19 hundredths; 301 and 5 thousandths; four and nine tenths; 17 and one hundredth; one and three ten thousandths.

(*c*) Add together,—11 and 75 hundredths; 154 ten thousandths; 39 thousandths; five and 35 millionths; 75 hundred thousandths.

SUBTRACTION.

	(a)	(b)	(c)	(d)
1	20·045	4·532	8·005	20·0325
	1·109	·9135	·7345	1·1219
	(a)	(b)	(c)	(d)
2	70·0135	100·015	20·0175	45·0305
	3·3275	1·09825	·90975	·3346

3 (a) Take 75 and 85 hundred thousandths from 100 and fiv tenths.

(b) From 75 and 53 hundred thousandths, take 19 and 9 ten thousandths.

(c) Take three and 175 ten thousandths from 30 and fiv hundredths.

MULTIPLICATION.

	(a)	(b)	(c)	(d)
1	$735 \times \cdot 5$	$8235 \times \cdot 8$	$3015 \times \cdot 6$	$8103 \times \cdot 4$
	$3056 \times \cdot 25$	$6035 \times \cdot 35$	$4721 \times \cdot 25$	$9131 \times \cdot 75$
	$80·51 \times \cdot 05$	$703·5 \times \cdot 75$	$205·75 \times \cdot 45$	$90·5 \times \cdot 125$
	(a)	(b)	(c)	(d)
2	$47·085 \times 1·05$	$71·05 \times 35·25$	$40·15 \times 4·035$	$75·25 \times 1·35$
	$1·0525 \times 7·25$	$42·05 \times 4·035$	$75·015 \times 12·08$	$4·015 \times 1·025$
	$\cdot 705 \times \cdot 0025$	$\cdot 0025 \times \cdot 0025$	$\cdot 725 \times \cdot 0075$	$\cdot 0735 \times \cdot 0084$

DIVISION.

	(a)	(b)	(c)	(d)
1	$7·1035 \div 5$	$2·30525 \div 4$	$3·4325 \div 8$	$7·3015 \div 4$
	$25·345 \div \cdot 5$	$18·015 \div \cdot 8$	$70·025 \div \cdot 4$	$301·25 \div \cdot 5$
	$305·05 \div \cdot 025$	$7·0325 \div \cdot 025$	$8·025 \div \cdot 075$	$8·205 \div \cdot 725$
	(a)	(b)	(c)	(d)
2	$\cdot 4275 \div \cdot 075$	$\cdot 0195 \div \cdot 25$	$\cdot 0275 \div \cdot 125$	$\cdot 7325 \div \cdot 025$
	$1·075 \div 2·05$	$3·5725 \div 9·025$	$1·749 \div 3·0325$	$1·8325 \div 3·005$
	$2435·7 \div \cdot 075$	$102·75 \div \cdot 0275$	$6·0135 \div 8·025$	$3·75 \div 2·0245$

RECURRING DECIMALS.

Express as Vulgar Fractions in Lowest Terms.

(*a*)	(*b*)	(*c*)	(*d*)
$\cdot\dot{3}$ $\cdot\dot{2}\dot{7}$ $\cdot\dot{3}\dot{3}$	$\cdot\dot{1}\dot{8}$ $\cdot\dot{1}\dot{5}$ $\cdot\dot{2}\dot{4}$	$\cdot\dot{3}\dot{9}$ $\cdot\dot{1}\dot{8}$ $\cdot\dot{5}\dot{4}$	$\cdot\dot{1}\dot{2}$ $\cdot\dot{2}\dot{1}$ $\cdot\dot{7}\dot{2}$
$\cdot1\dot{3}$ $\cdot2\dot{7}$ $\cdot3\dot{6}$	$\cdot1\dot{5}$ $\cdot3\dot{7}$ $\cdot1\dot{3}$	$\cdot1\dot{7}$ $\cdot3\dot{8}$ $\cdot2\dot{8}$	$\cdot3\dot{7}$ $\cdot7\dot{1}$ $\cdot8\dot{3}$
$2\cdot51\dot{3}$ $5\cdot12\dot{7}$	$6\cdot10\dot{8}$ $5\cdot14\dot{7}$	$\cdot204\dot{3}$ $\cdot41\dot{5}\dot{7}$	$\cdot31\dot{3}\dot{2}$ $\cdot01\dot{5}\dot{7}$

Express as Decimals.

(*a*)	(*b*)	(*c*)	(*d*)
$\frac{1}{8}$ $\frac{7}{8}$ $\frac{3}{8}$ $\frac{5}{8}$	$\frac{3}{8}$ $\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{11}$	$\frac{1}{11}$ $\frac{5}{8}$ $\frac{4}{7}$ $\frac{3}{11}$	$\frac{4}{5}$ $\frac{3}{11}$ $\frac{6}{7}$ $\frac{4}{13}$
$\frac{1}{13}$ $\frac{5}{11}$ $\frac{1}{8}$ $\frac{7}{11}$	$\frac{9}{13}$ $\frac{4}{13}$ $\frac{5}{8}$	$\frac{7}{13}$ $\frac{11}{14}$ $\frac{6}{7}$ $\frac{4}{11}$	$\frac{1}{13}$ $\frac{3}{13}$ $\frac{9}{13}$
$\frac{4}{9}$ $\frac{11}{14}$ $\frac{1}{13}$ $\frac{13}{14}$	$\frac{5}{99}$ $\frac{7}{11}$ $\frac{4}{7}$	$\frac{11}{13}$ $\frac{9}{13}$ $\frac{3}{13}$	$\frac{9}{14}$ $\frac{7}{13}$ $\frac{4}{11}$ $\frac{3}{13}$

Simplify,—

(*a*)	(*b*)	(*c*)	(*d*)
$\cdot\dot{3}\times\cdot0\dot{1}\div\cdot\dot{6}$	$\cdot1\dot{7}\times\cdot\dot{9}+\cdot\dot{5}$	$\cdot\dot{7}\times\cdot05\div\cdot0\dot{2}$	$\cdot\dot{8}\times\cdot0\dot{8}\div\cdot8\dot{3}$
$\cdot39\dot{\div}\cdot2\dot{8}\times\cdot1\dot{3}$	$\cdot\dot{1}\div\cdot3\dot{3}\times\cdot1\dot{5}$	$\cdot1\dot{7}\div\cdot7\dot{1}\times\cdot57$	$\cdot\dot{6}\div\cdot01\dot{3}\times\cdot15\dot{1}$
$\cdot\dot{3}+2\cdot1\dot{7}$	$8\cdot\dot{3}-5\cdot\dot{1}$	$\cdot1\dot{2}\times\cdot3\dot{9}$	$\cdot\dot{7}+1\cdot2\dot{1}$
$1\cdot\dot{1}$	$\cdot5+\cdot\dot{5}$	$\cdot\dot{6}-\cdot\dot{5}$	$2\cdot\dot{2}$

REDUCTION.

Find the value of,—

	(*a*)	(*b*)
1	£·5 £·05 £·75	£·35 £·25 £·125
	·0925*s*.	1·075 of £2
	35·75 of 5*s*.	3·725 of 10*s*.
	(*c*)	(*d*)
	£·45 £·175 £·35	£·275 £1·05 £2·575
	£·07125	3·045 of 10*s*.
	3.1375 of 12*s*.	1·375 of a guinea.

(*a*)	(*b*)	(*c*)	(*d*)
2 ·05 of a ton.	·2135 of a cwt.	·03145 of a ton.	·215 of 10 cwt.
7·5 of 3 qrs.	3·145 of 1 t. 5 cwt.	5·275 of a qr.	7·524 of a ton.
5·25 of a yd.	6·75 of 14 lbs.	3·536 of a mile.	2·75 of an acre.

Reduce,—

	(*a*)			(*b*)		
3	18*s*. 4¾*d*.	to decimal of	a £	23*s*. 6*d*.	to decimal of	2 guineas
	3 c. 3 qr.	,, ,,	a ton.	2 lb. 8 oz.	,, ,,	1 qr.
	110 lbs.	,, ,,	5 cwt.	3 qts. 1 pt.	,, ,,	1 gallon.

(*c*)

17*s*. 5½*d*. to decimal of 30*s*.
2 f. 35 p. ,, ,, 1 mile.
3 hrs. 25 min. ,, ,, 3 days.

MISCELLANEOUS EXERCISES.

A. (1) If ·5 of a yard cost ·35 of a shilling, what did 5 yards cost
(2) Multiply 25·05 by ·075, and divide the product by ·025.
(3) What will 17·5 tons of coal cost at 35·75*s*. per ton?

B. (1) If *A* can do ·25 of a piece of work in one day, and *B* ca do the whole in five days, how long will *A* and *B* workin together take to complete the same?
(2) What will 171 yards cost at 9·075*d*. per yard?
(3) If ·05 of 3 tons cost £3·75, what quantity could be bough for £12·25?

C. (1) How much will a person lose who purchases 45 yards o cloth @ 5·25*s*. per yd., if the yard measure is ·75 of an inc short?
(2) Find the difference between ·25 of a ton and ·325 of a cwt
(3) How much will ·5 ton of sugar cost @ 2·25*d*. per lb.?

D. (1) A boy spends ·25 of his money on oranges, ·45 on apples and has one shilling left; how much had he at first?
(2) What will a merchant gain who purchases a ton of suga for £·9125 per cwt. and sells it @ 3·25*d*. per lb.?
(3) From ·3̇ of ·4344 of a ton, take ·075 of a cwt.

E. (1) A man's income is £55·325 per quarter, and he spends £15·375 per month; what does he save in a year?

(2) *A* can do some work in 7·25 days, *B* can do the same in eight days; how long would they take to complete it working together?

(3) Find the cost of 40·05 acres @ £18·075 per rood.

F. (1) ·375 of a ship was worth £3,000; what was the whole value?

(2) If ·425 of a lb. of tea is worth 2*s.* 1½*d.*, what will 3·25 lbs. cost?

(3) Simplify, $\frac{9\cdot075\times\cdot0725}{1\cdot05-\cdot465}$

G. (1) If ·25 of a sum of money belongs to *A*, and the remainder to *B*, and the difference between the two shares is £2 10*s.*, what was the sum?

(2) Simplify, $\frac{25\cdot05\times31\cdot75}{\cdot0913-\cdot0188}$

(3) How many yards of carpet, 1·25 yds. wide, will cover a room 19·4 feet long by 17·5 feet wide?

H. (1) Reduce 4*s.* 8¾*d.* to the decimal of a £, and find how many times ·25 of 5*s.* is contained in £·75.

(2) How much money am I worth if I have £400 in the bank, ·25 in gas shares, and ·55 invested in a trading company?

(3) What will be the cost of ·25 of 12 tons of coal if 1·3 of a cwt. cost 2·25 shillings?

COMPOUND PROPORTION.

—o—

I. (1) If 27 acres can be mown by 7 men in 3 days, how many acres can 15 men mow in 4 days?

(2) What will be the cost of keeping 35 boys for 10 months, if 12 cost £25 for two months?

(3) How many men will be required to build a wall 100 yds. long in 5 days, if 30 men can build 50 yards in 10 days?

B. (1) If 50 yards of carpet, 3 quarters of a yd. wide, cost £7 10*s.*, how much would 75 yards cost half-a-yard wide?

(2) If 12 men can finish a piece of work in 10 days when they work 8 hrs. per day, how many hours per day must 15 men work to do the same in 8 days?

(3) What will be the cost of 35 sides of bacon, each weighing 75 lbs., if 3 sides each weighing 80 lbs. cost £6 10*s.*?

C. (1) If 10 workmen earn £13 12*s.* per week when they work 8 hours per day, how much would 8 earn working 9 hours per day?

(2) How much will 10 loads of coal cost, each weighing 1 ton 5 cwt., if 4 loads weighing 18 cwt. each cost £3 10*s.*?

(3) How many yards of tramway could 80 men lay in 20 days, if 75 men could put down 100 yards in 30 days?

D. (1) How many yards of carpet, 3 qrs. wide, will be required to carpet 5 rooms, if 3 such rooms take 75 yards which is one yard in width?

(2) If the interest on £125 for 6 months is £3 10*s.*, how much would produce £5 10*s.* in 8 months?

(3) A man can perform a journey of 100 miles in 3 days, walking 8 hours per day; how many miles could he travel in 6 days walking 6 hours per day?

E. (1) The interest on £70 for 13 months was £4; how much would £15 produce in 14 years at the same rate?

(2) If 120 sheep can be purchased for £250 when mutton is selling at 7½*d.* per lb., what would 150 be worth if the price of mutton were 9½*d.* per lb.?

(3) If I gain £15 by selling 30 tons of coal at 30*s.* per ton, what ought I to gain by selling 25 tons at £2 per ton.?

F. (1) What would the carriage of 5 tons 10 cwt. cost for 50 miles, if 80 tons can be carried 20 miles for £2 10*s.*?

(2) If 15,000 bricks are required to build a wall 300 yds. long and 5 feet high, how many will be required to build two walls 4 feet high, one of them 150 yards and the other 250 yards in length?

(3) What should a 6*d.* loaf weigh when wheat is 50*s.* per qr. if a 4-lb. loaf cost 8*d.* when wheat is £3 per qr.?

G. (1) How much meat will be required to give 12 oz. each per day to 150 men for a certain time, if 150 lbs. will serve 20 men for the same time when they eat 1 lb. per day each?

(2) If 25 horses can be kept 14 days for £10, how much will 45 horses cost for 63 days?

(3) If by using 2 bushels of malt I can brew 36 gallons of beer at a cost of 3*d.* per quart, how many gallons ought I to get from 8 bushels so as to cost 4*d.* per quart?

H. (1) Fifteen men can build 130 yards of wall in 5 days, working 8 hours per day; how many yards could 10 men build in 12 days working 9 hours per day?

(2) If 35 tons of iron are required to construct 500 rails 8 yards long and 4 inches square, how many tons would be required for 650 rails 12 yards long and 3 in. square?

(3) What will be the cost of bread for 400 men for 3 months when bread is 1*s.* per gallon, if the cost for 25 men for 8 months when bread is 1*s.* 3*d.* per gallon is £40?

I. (1) Forty men are employed to dig a ditch 100 yds. long and 3 feet wide in 5 days; how many extra men will be required to make it 300 yards long and 4 feet wide in 10 days?

(2) 55 acres can be mown by 11 men in 3 days, working 12 hours per day; how many acres could 15 men mow in 4 days working 10 hours per day?

(3) If £150 produce £15 interest in 2 years when money is worth 5 per cent., what will be the interest on £310 for 3 years when money is worth 4 per cent.?

J. (1) How many yards of wall 6 feet high could be built by 25 men in 12 days, if 7 men can build 100 yards 5 feet high in 14 days?

(2) If 16 cows produce £2 profit per week when butter is 1*s.* per lb., what will be realised from 45 cows in 3 weeks when butter is 1*s.* 3*d.* per lb.?

(3) A certain sum of money will purchase 120 yards of carpet 37 inches wide at 4*s.* 6*d.* per yard; how many yards 40 inches wide could be bought at 5*s.* per yard for same money?

K. (1) Twenty-four men can cut up 250 feet of plank in 2 days, working 9 hours per day; how many feet could 78 men cut up in 3 days working 6 hours per day?

(2) If 35 men working 10 hours per day complete a work in 15 days, how long will 45 men take to do the same working 8 hours per day?

(3) What will be the interest on £375 for 12 years, if £25 is produced by £150 in three years?

L. (1) Twelve men can put up 100 yards of wall in 10 days, working 8 hrs. per day; how many yards could 10 men build in 15 days working 10 hours per day?

(2) How many lbs. of meat will be sufficient to feed 100 men for 25 days, if 80 men require 200 lbs. for 5 days?

(3) If 7 men can earn £15 in 6 days working 9 hours per day, how many £ will 21 men earn in 14 days working 8 hours per day?

M. (1) 24 acres can be mown by 4 men in 8 days, working 8 hours per day; how many acres could be mown in 14 days by 3 men working 10 hrs. per day?

(2) How much will a room 20 feet long and 15 feet wide cost for carpet, if another room 15 feet long and 14 feet wide cost £4 10*s.*?

(3) If 40 horses cost £50 for six weeks' keep when hay is £4 per ton, how much would 50 horses cost for 10 wks. when hay is £3 10*s.* per ton?

N. (1) £120 will provide 200 persons with provisions sufficient for 5 days; how much will be required to provide 150 persons with sufficient for 8 days?

(2) 24 acres can be mown by 6 men in 3 days, working 9 hours per day; how long will 5 men take to mow 180 acres working 10 hours per day?

(3) If 35 trucks of coal each weighing 8 tons cost £440, what will be the cost of 55 trucks each weighing 6 tons?

HUGHES'S EDUCATIONAL COURSE.

COMPLETE ANSWERS

TO A

Standard Arithmetic.

BY

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LONDON: JOSEPH HUGHES,

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ANSWERS TO STANDARD I.

ADDITION.

	(*a*)	(*b*)	(*c*)	(*d*)
1	460	2891	2837	2855
2	460	505	901	2800
3	802	307	2855	712
4	2800	2837	1810	1801
5	1937			
6	604	730	1405	2855
7	1324	2260	1063	2107
8	2602	1522	1243	2800
9	2305	1423	1603	2701
10	1919			
11	1946	2846	3764	1973
12	2819	1973	2062	2134
13	2350	2882	2891	2819
14	2521	3601	2828	3719
15	2837			
16	3232	3511	2800	2431
17	3511	3124	4006	3322
18	2855	2521	2224	3115
19	3520	3007	2071	3214
20	2224			
21	8106	3719	1928	2864
22	2206	1973	2602	1720
23	2873	1801	1522	2008
24	2404	3007	2873	1810
25	2053			
26	6310	20422	16003	14050
27	28505	25201	19307	15482
28	13060	25030	20035	21412
29	4628	19109	17011	30205

30	2242			
31	27100	19055	20422	26200
32	17011	23302	12304	18001
33	26264	22303	14500	23230
34	17101	27128	15220	11323
35	3728			
36	13033	19190	25355	10234
37	11855	18164	14528	18001
38	10612	12322	15004	10928
39	13123	10928	15455	13673
40	3151			
41	15040	12007	14023	13060
42	16111	10315	11305	10720
43	19073	17002	13204	15112
44	17264	18155	13682	14302
45	2891			
46	13420	10117	14302	16300
47	20422	21250	19703	17264
48	18173	14302	17255	15473
49	10955	14582	11503	16346
50	2864			
51	13628	15004	12223	16328
52	11350	14023	13664	10144
53	13231	17200	13402	15031
54	12755	13510	20828	19703
55	3610			

SUBTRACTION.

	(*a*)	(*b*)	(*c*)	(*d*)
1	343	244	127	631
2	532	541	802	226
3	181	271	433	451
4	307	424	505	217
5	622	514	226	343
6	208	415	244	811
7	352			

8	316	109	235	712
9	514	217	406	703
10	235	802	622	523
11	721	406	523	424
12	415	271	334	820
13	811	361	523	433
14	127			
15	424	154	244	217
16	613	901	523	91
17	721	334	640	712
18	622	541	802	433
19	532	343	262	136
20	181	712	127	262
21	802			
22	154	235	109	307
23	127	136	253	19
24	82	19	613	28
25	424	217	55	73
26	1216	1009	343	316
27	1216	613	712	505
28	217			
29	406	361	712	604
30	613	316	721	316
31	307	622	514	406
32	118	415	325	433
33	622	127	901	181
34	154	307	505	271
35	901			

ANSWERS TO STANDARD II.

ADDITION.

	(a)	(b)	(c)	(d)
1	118064	37271	82073	151319
2	195104	136721	145618	118703
3	163262	145136	191810	181343
4	192819	127172	210755	190334
5	5591			
6	226406	172802	194673	253721
7	191964	192008	154235	194628
8	285023	181145	193043	136109
9	192837	244424	280370	145064
10	181055			
11	820541	513146	901541	504146
12	712802	703631	712604	1045361
13	901523	541703	802253	901424
14	721433	802325	736428	820163
15	145037			
16	802631	910532	901442	604325
17	703046	613352	1450703	647328
18	649173	1096112	821405	604127
19	901631	643502	734204	802604
20	208280			
21	532505	811316	910208	640532
22	736437	604325	820604	901424
23	172109	118208	136406	109037
24	109235	127217	37109	46208
25	280000			
26	1901919	1922222	2802873	645573
27	1982325	2873244	2449182	1904312
28	2802819	2602505	2172837	1721522
29	2351991	2819532	1814321	1973424
30	324164			

SUBTRACTION.

	(a)	(b)	(c)	(d)
1	37217	44291	20846	46037
2	28406	12782	11134	37235
3	37136	19082	10504	46073
4	46019	50032	28523	28334
5	19307	37226	73244	37136
6	20233	43364	46217	28109
7	118037	406208	109226	46109
8	19307			
9	423146	208307	109406	406307
10	406136	551306	424136	194637
11	283007	109109	406523	307451
12	532613	145055	226109	303428
13	307136	208442	281234	208226
14	647346	316307	303446	460343
15	163343	316343	307442	820631
16	91235			
17	281937	307406	505163	208226
18	235136	241346	406316	253604
19	343406	307136	557346	464628
20	307226	372242	70346	226307
21	287346	334136	46217	244073
22	154334	424055	284673	406523
23	80237	28127	46091	82613
24	19163			

MULTIPLICATION.

	(a)	(b)	(c)	(d)
1	1973316	17219118	1711910	379128
	1973514	8291505	17282514	1937604
	1970328	3790164	37505316	28307460
2	9137460	36191730	46913160	3791640
	55172802	37091604	4603782	5057364
	60446253	55914628	1991703	53002712
3	2819730	91645140	73829010	53282910
	19109145	2172819	32537208	1902846
	11179128	23552364	17255136	11358228
4	4061432	28622424	15491064	7351464
	3421082	6412511	1727355	2841104
	22636119	54117228	64734637	81164523

	(a)	(b)	(c)	(d)
5	11442864	10549164	11087364	11851428
	62022080	5148264	13621160	46191180
	30728460	1955136	46172280	377328
6	374620800	73145280	736428	736428
	55284600	64523136	191272800	37064280
	1928640	20864640	5564640	376400000
7	31231424	15131928	81013520	8029164
	46191180	4244240	18119280	55282080
	118284600	190284600	372622800	731182800
8	195513600	2836119	46172280	281928000
	46046352	28424000	44282000	11811800
	28361190	22673280	194635200	647328000
9	14564000	374620800	19286400	5503520
	33420800	64732800	55505280	46172280
	289100000	532000000	244000000	604208000
10	71200000	73552864	217622460	37064280
	6406400	52342400	5234240	8220080
	91824600	644332800	6446000	35002000
11	10928280	643520000	642224000	2837280000
	4640240	37091712	284240000	466004000
	3764640000	145640000	172464600	712000000

DIVISION.

	(a)	(b)	(c)	(d)
1	316919+1	169118	281990+1	190901
	912827+1	914654+1	109505	468228
	826418+1	823753+2	556482	372862+2
2	284671+2	316621+1	462855	283791
	462152	523620+2	604028	505323+2
	253604	826418+1	541703	307613
3	467102	732401+3	523603+1	822610+1
	370244	612017+3	316468+2	468028+2
	825545+1	325648+2	721352	412364
4	378270+3	424504+1	286473	532622
	802613	554335+5	622107+2	917364
	532620+2	645324+6	826471+2	523802
5	325163	824691	163201+7	824621+7
	341272+1	631253	734120+3	514287+3
	917346	235172	631376+4	827364

	(a)	(b)	(c)	(d)
6	642172+8	523212+5	735506+4	370316
	361253	415703	271305+2	647382
	281923+5	703621+1	374626+2	557021
7	522132+5	642891	827355	712901
	465573	827129+1	541286+4	462851+4
	826227+3	541821+9	283755	825413+7
8	465591	287364	732841+5	361801+1
	208374+6	825412+8	523469+10	914242+8
	244281+9	523284+6	712912+8	648210+9
9	226281+9	195143+7	8273712	532734+6
	73829+1	82645+5	374627+1	631738+2
	825564	802647+3	556419	463256+4
10	5326482	64287+3	287362+2	55648+2
	736428	463719	721376+4	53260+4
	826048+2	287391	378262+2	826446
11	734664	825562+2	739164	468273
	918273	64823+7	55376+4	28739+1
	604283+7	829173	645564	822873
12	827361+3	918270+3	736463+1	648273
	640738+2	738291	901739+1	648117+3
	827364	604913+7	541826+4	829173
13	193706+4	469173	733764	82917+3
	64738+2	44263+1	736482	55649+1
	374628	913752+3	63182	42472+1

PROBLEMS.

A.	(1)	287201	B.	(1)	194682	C.	(1) 233291
	(2)	53282		(2)	50573		(2) 19226
	(3)	8264		(3)	53273		(3) 91352
D.	(1)	242255	E.	(1)	198273	F.	(1) 82046
	(2)	19631		(2)	3728		(2) 19721
	(3)	5221		(3)	8291		(3) 18128
G.	(1)	195537	H.	(1)	208523	I.	(1) 191928
	(2)	9010		(2)	50519		(2) 10928
	(3)	7355		(3)	374628		(3) 72128
J.	(1)	195537	K.	(1)	32528	L.	(1) 288255
	(2)	42473		(2)	2819		(2) 14519
	(3)	8246		(3)	25382		(3) 6419
			M.	(1)	234173		
				(2)	12313		
				(3)	316019		

ANSWERS TO STANDARD III.

DIVISION.

	(a)	(b)	(c)	(d)
1	64208	37406	82505	82730
	55235	42211	42491	23582
	64127	54128	34391	52391

	(a)	(b)	(c)	(d)
2	82028	51211	22303	8219
	7012	8101	7355	5131
	1937	70201	14302	7102

	(a)	(b)	(c)	(d)
3	20314	9164	21016	3106
	3746	28019	37622	14528
	64136	208109	70364	54128

	(a)	(b)	(c)	(d)
4	52319	1603	3007	1946
	37028	34364	2864	61337
	463764	307622	613082	622901

	(a)	(b)	(c)	(d)
5	19046+ 91	7217+111	3601+ 28	8101+343
	7308+ 11	9132+ 14	2341+136	7342+ 22
	4517+102	8115+122	3601+334	8207+ 21

	(a)	(b)	(c)	(d)
6	3601	4673	8255	7102
	8001+ 37	9146+ 55	8001+137	7216+ 13
	918+ 11	11341+ 73	91802+ 82	61003+ 91

	(a)	(b)	(c)
7	20823+ 32	73208+ 82	1234+ 136
	71011+ 91	8264+352	10315+ 145
	5212+ 46	19801+173	73451+ 82

	(a)	(b)	(c)
8	37613	4213	81137
	31673	64316	91424
	28712	73811	46712
	(a)	(b)	(c)
9	91801 × 136	21341 + 27	73802 + 118
	20107	30205	10801
	1903 + 16	7102 + 46	8601 + 55
	(a)	(b)	(c)
10	73127	82901	7319
	3124	2125	8233 + 1111
	82701 + 11	90106 + 13	34201 + 19
	(a)	(b)	(c)
11	9137	8101	7201
	4501	3601	2864
	2215	1324	9155
	(a)	(b)	(c)
12	8234 + 12	5143 + 52	8101 + 37
	9013 + 16	4051 + 235	9104 + 15
	7102 + 37	6112 + 136	3762 + 237
	(a)	(b)	(c)
13	3214 + 109	1817 + 111	1094 + 123
	8237	1991	7201
	917 + 346	712 + 361	824 + 33
	(a)	(b)	(c)
14	376 + 112	181 + 37	6112
	8273	2422	1234
	901 + 37	145 + 37	827 + 12

ADDITION.

	(a)			(b)			(c)			(d)		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
1	14	14	7½	19	19	3¾	28	1	6½	10	9	5¼
2	9	1	7½	15	4	3¾	13	0	1¼	16	2	1
3	28	19	0	18	0	1	17	2	7½	19	2	8
4	13	6	3¾	12	13	3	22	0	1¼	20	8	0
5	19	4	6									

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d
6	208	0	3¾	140	14	5¼	307	19	5¼	170	2	3
7	191	9	5¼	181	19	0	163	2	1¾	208	14	5
8	244	13	1¼	190	7	0½	208	19	3¾	170	1	1
9	123	4	3¾	132	2	2	172	19	0	190	19	5
10	73	2	8									
11	2811	17	3¾	3070	0	5¼	2134	12	7	1513	2	8
12	3005	2	3¾	1801	5	0¼	1928	4	3½	2800	0	0
13	2422	19	0	3700	15	4	1919	19	7½	1810	18	1
14	2004	4	7½	1243	12	7	2620	19	0	2422	11	8
15	415	1	9									
16	3006	15	0¼	28461	9	7½	5507	3	5¼	30074	15	5
17	19829	10	0	18117	2	5¼	3700	3	0¾	28082	10	2
18	19622	4	6	16302	0	5½	28820	1	4¼	19027	12	3
19	28043	2	1	19055	5	5	19352	3	0¾	28064	4	6
20	15428	15	4									
21	1812322	17	0½	1901919	19	3¾	2855552	0	8			
22	343442	12	11¼	532641	18	7½	312419	10	11¾			
23	463342	17	5¼	334523	13	6	424073	10	6½			
24	325901	19	5¼	825323	16	3¾	641946	11	3¼			
25	216191	13	6									

SUBTRACTION.

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d
1	35	2	3¾	55	19	7½	73	3	4½	72	10	3
2	73	19	7½	73	1	6½	28	10	2¾	46	2	5
3	62	11	5¼	51	13	3¾	63	10	7½	33	4	5
4	82	1	2¾	64	12	4½	73	16	0½	64	12	11
5	82	19	7½	63	13	4½	82	3	11¼	73	3	4
6	55	19	3¾	64	19	3¾	46	19	3¾	64	19	7
7	1	18	3¾									
8	372	8	3¾	514	11	10¾	442	11	5½	316	10	6
9	451	10	2¾	640	19	5¼	802	15	1½	531	11	6
10	532	10	11¾	631	5	11½	371	18	5¼	451	10	11
11	280	12	4½	721	10	11¾	244	19	5¼	208	11	3

(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d.
370	12	11½	402	4	7½	225	12	5½	370	10	11¾
532	13	3½	641	9	3¾	432	12	5½	558	11	3¾
191	18	7½									
3106	19	7½	1273	16	5½	3304	14	11½	5140	19	7½
4332	17	3¾	5203	19	3¾	3434	6	3¾	5320	3	4½
6301	12	4½	4302	11	11¾	5147	12	3¾	6103	12	11½
5591	10	6½	2332	11	5½	5410	10	11¾	4421	9	7½
7351	13	5½	6121	14	11½	7021	3	11½	7001	11	3¾
8200	1	11¾	7000	12	7½	7219	13	11½	6490	11	11¾
7211	9	3¾									
1981	12	5½	19739	12	5½	8291	1	6½	19019	1	11¾
3727	12	5½	10181	0	11¾	914	15	3¾	1092	17	5½
1909	12	8	8209	11	6½	5112	1	7½	1187	12	7½
27109	11	2¾	46195	5	5½	20230	3	5½	10014	13	7½
1991	3	11½	33301	3	11½	82081	11	9	71011	14	11½
23415	14	3¾	10907	12	7½	3741	5	5½	81011	13	11½
46284	6	5½									
37199	18	11	191092	17	5½	61364	19	3¾	191951	11	11
46002	17	7½	559119	19	3¾	4111	12	7½	190912	8	3¾
1924	4	7½	9119	14	11½	90012	17	3¾	1919	1	2¾
5239	11	11¾	1233	1	7½	46191	0	11¾	9102	17	7½
21349	11	6½	13411	1	2¾	9191	19	3¾	1919	14	11½
19442	1	11¾	55006	11	11	82514	0	7½	6139	15	11½
234119	1	9									

MISCELLANEOUS EXAMPLES.

A. (1) £3 14*s.* 11*d.*
(2) £91235 11*s.* 8*d.*
(3) 7030

B. (1) £0 13*s.* 6*d.*
(2) £1973 1*s.* 9*d.*
(3) 109

C. (1) £1 15*s.* 3*d.*
(2) £11116 17*s.* 11*d.*
(3) 1108

D. (1) £2107 0*s.* 0*d.*
(2) £10099 18*s.* 11*d.*
(3) 415

E. (1) £28 19*s.* 0*d.*
(2) £109018 13*s.* 7*d.*
(3) 1603

F. (1) £30 15*s.* 10*d.*
(2) £913 14*s.* 2*d.*
(3) 721

G. (1) £9 16*s.* 4*d.*
(2) £19 14*s.* 5*d.*
(3) 37

H. (1) £32 5*s.* 0*d.*
(2) £10908 0*s.* 11*d.*
(3) 1162

I. (1) £ 16*s.* 3*d.*
(2) £199 18*s.* 11*d.*
(3) 1612

J. (1) £3 13*s.* 3*d.*
(2) £196 11*s.* 11*d.*
(3) 271

K. (1) £1 7*s.* 2*d.*
(2) £4691 8*s.* 11*d.*
(3) 424

L. (1) £1 13*s.* 5*d.*
(2) £63 11*s.* 9*d.*
(3) 64

M. (1) £15 4*s.* 0*d.*
(2) £289 11*s.* 11¾*d.*
(3) 181

N. (1) £13 3*s.* 3*d.*
(2) £123 3*s.* 1*d.*
(3) 7382

O. (1) £ 14*s.* 5*d.*
(2) £145 15*s.* 4*d.*
(3) 712

P. (1) £18 11*s.* 9*d.*
(2) £1941 12*s.* 11*d.*
(3) 4628

Q. (1) £343 0*s.* 0*d.*
(2) £91 1*s.* 9*d.*
(3) 1234

R. (1) £35 2*s.* 7½*d.*
(2) £9112 16*s.* 3¾*d.*
(3) 316

S. (1) £ 17*s.* 2*d.*
(2) £1919 1*s.* 2¾*d.*
(3) 1117

T. (1) £1207 0*s.* 0*d.*
(2) £15 13*s.* 7½*d.*
(3) 7319

U. (1) £64 1*s.* 9*d.*
(2) £131 3*s.* 2*d.*
(3) 3016

V. (1) £333 14*s.* 3½*d.*
(2) £15 13*s.* 3¾*d.*
(3) 7328

W. (1) £1 2*s.* 7*d.*
(2) £3115 19*s.* 7½*d.*
(3) 6013

ANSWERS TO STANDARD IV.

COMPOUND ADDITION.

(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
1113004	7	3	10130503	7	7½	10110304	12	4½
40102030	6	4	2013040	3	4½	2012050	19	3¾
30106060	1	3	10110304	6	4	10161001	2	5½
9100301	6	3¾	2011032	1	5¼	2040400	3	2¼
1937802	19	3¾						
30102031	7	0½	10214020	0	3¾	1060364	9	1
2061100	0	3¾	1102015	3	2¼	1304020	3	4½
1261406	3	2¼	1230400	0	7½	1230412	7	5¼
2011031	2	3¾	1012012	3	7½	730406	1	9
415342	10	5¼						
11010403	5	5	1203040	8	2	1603406	3	7
901304	3	5¼	901306	17	3	123040	3	7
4332819	10	11¾	5324332	17	7½	917346	19	7½
732819	12	0¾	2353728	13	6	7382622	19	7½
109505	9	10						

SUBTRACTION.

(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d.
30160	3	4½	403012	5	2¼	30712	2	2½	21040	3	3¾
37406	3	2¼	13402	1	9	2062	3	0¾	37064	19	5¼
60402	17	5¼	20404	7	0½	3303	12	1¾	33210	13	0¾
7033	16	7½	46282	1	0¾	8273	4	6	12031	3	3¾
55644	15	5¼	37649	11	2¾	40619	3	0¾	28604	19	7½
22604	15	5¼	30162	8	3¾	26205	5	3¾	50230	19	5¼
110806	4	3¾									
52303	16	3¾	40241	2	4½	12712	16	7½	33211	12	0¾
918231	15	5¼	60437	0	3¾	325150	4	5¼	604316	2	3¼
307406	0	3¾	90102	8	7½	40601	3	3¼	90103	7	5¼
60403	7	3¾	603014	5	1	104113	3	0¾	102304	6	1½

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.
12	70003	1	9	6419235	3	4½	730019	1	2¾	192	17
13	91163	14	2½	9001	12	0¾	620243	12	7½	216018	11
14	230311	19	7½								
15	53282	1	6½	603136	11	6½	281234	2	3¼	559132	5
16	823719	15	1¼	2819721	3	4½	191972	1	3¾	343130	15
17	621142	13	3¾	14329	13	11¼	193421	3	4¼	64118	19
18	721117	11	11¾	226432	11	6½	601212	3	2½	28289	13
19	127414	11	11¾	4331272	3	11½	301060	3	0¾	55109	19
20	199146	11	10¾	82730	3	7	289118	11	2¾	917305	14
21	11873	11	3¼								

MULTIPLICATION.

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
1	7101	15	5	1955	13	3½	1991	19	7½
	1726	13	7½	28172	19	7½	5546	19	5¼
	1095	11	3	1951	11	2	31151	15	3
2	82712	16	3	40421	18	5¼	1943	3	5¼
	23591	19	7½	11080	12	4½	24411	10	4½
	117109	12	3¼	62227	15	11¼	41573	3	11¼
3	22302	14	6	54111	2	6	12790	14	6
	3437	12	3¾	13402	19	0	7361	3	3¾
	51455	17	11	3728	16	3	28027	15	5
4	43328	19	3¾	20828	19	7½	9182	19	5¼
	64199	17	3	80291	7	3	64739	17	3
	52373	19	5¼	17220	17	7½	7314	11	3
5	102708	11	7½	81119	19	0	462800	19	0
	73006	13	0	3160	19	0	23410	19	0
	72104	6	0	1700	11	0	105131	18	0
6	702010	19	0	15010	12	0	31300	12	0
	73037	0	0	8025	5	0	11201	5	0
	11050	12	0	13069	10	0	34300	0	0
7	12500	11	0	801108	11	0	130510	0	0
	442080	2	0	530020	0	0	253080	2	0
	314261	12	0	32056	4	0	82136	2	8
8	912400	13	0	90104	6	0	1315600	13	0
	802300	16	0	2134	0	0	824612	16	7½
	406287	12	0	1108321	13	0	822819	0	0

SHORT DIVISION.

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
1	91015	13	$3\frac{3}{4}$	46361	19	$7\frac{1}{2}$	28343	12	$11\frac{1}{4}$
	82514	3	$11\frac{1}{4}$	64019	12	$0\frac{3}{4}$	736043	16	$5\frac{1}{4}$
	19802	10	$6\frac{1}{2}$	28073	10	$11\frac{3}{4}$	46285	14	$7\frac{1}{2}$
2	82046	19	$3\frac{3}{4}$	91064	19	$5\frac{1}{4}$	28462	8	$3\frac{3}{4}$
	82372	17	$7\frac{1}{2}$	73028	19	$3\frac{3}{4}$	22619	6	$10\frac{1}{2}$
	43328	19	$5\frac{1}{4}$	64731	18	$3\frac{3}{4}$	37433	11	$5\frac{1}{2}$
3	289173	10	$6\frac{1}{2}$	37289	11	$11\frac{3}{4}$	82136	19	$7\frac{1}{2}$
	46371	18	$3\frac{3}{4}$	37406	11	$5\frac{1}{2}$	46127	11	$1\frac{3}{4}$
	73028	19	$7\frac{1}{2}$	73631	12	$11\frac{1}{4}$	28109	13	$3\frac{1}{2}$
4	641362	8	$3\frac{3}{4}$	43346	1	$6\frac{1}{2}$	914423	7	$3\frac{3}{4}$
	31637	4	$3\frac{1}{2}$	70346	10	$2\frac{3}{4}$	37208	19	$5\frac{1}{4}$
	31628	11	$3\frac{1}{4}$	19734	6	$5\frac{1}{4}$	191362	8	$7\frac{1}{2}$
5	42482	19	$3\frac{3}{4}$	604732	8	$7\frac{1}{2}$	194628	17	2
	28192	17	$5\frac{1}{4}$	736432	14	$3\frac{3}{4}$	556419	1	$2\frac{3}{4}$
	64739	11	$4\frac{1}{4}$	42455	0	$3\frac{3}{4}$	13338	2	$7\frac{1}{2}$
6	32573	12	$0\frac{3}{4}$	43354	13	$2\frac{1}{4}$	42135	10	$4\frac{3}{4}+3$
	28163	19	$2\frac{1}{4}+3$	553712	2	$2\frac{1}{2}$	195320	19	$2\frac{1}{2}+5$
	374628	19	$0\frac{1}{2}+7$	62264	3	$2\frac{1}{4}$	28467	12	$3\frac{3}{4}$
7	53245	13	$4\frac{1}{2}$	41527	13	$0\frac{3}{4}$	281092	10	$4\frac{1}{2}$
	64829	17	$0\frac{1}{2}$	28739	10	$3\frac{3}{4}$	19737	12	$4\frac{1}{2}+3$
	73552	11	$1\frac{1}{4}$	198254	15	$2\frac{1}{4}$	282836	11	$2\frac{3}{4}$
8	64712	19	$3\frac{1}{2}+4$	82738	11	$2\frac{1}{2}+5$	234173	19	$6\frac{1}{2}+1$
	82916	13	$1\frac{1}{2}+6$	91613	19	$3\frac{1}{2}+4$	736482	12	$7\frac{3}{4}+3$
	73154	14	$5\frac{1}{2}+7$	71282	17	$2\frac{1}{4}+5$	467355	19	$6\frac{1}{2}+1$

REDUCTION OF MONEY.

	(a)	(b)	(c)	(d)
1	12755	23582	91271	118127
	333173	557391	613235	871973
	501301	826455	901721	283791
2	1531811	1902837	1072163	3161711
	1008191	1723791	1909137	1036019
	5104019	3015001	1700101	1007002

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.	(d) £	s.	d
3	19	19	7½	21	13	0½	23	14	7½	28	19	3
	73	19	7½	91	11	3½	82	15	1½	90	19	1
	114	13	3¾	121	15	7½	181	0	7½	172	13	6
4	104	14	7½	712	19	7½	739	13	4½	411	13	7
	163	19	0	641	18	0	192	15	2	559	16	1
	172	13	3½	643	16	0	372	13	1½	613	13	3

LONG DIVISION.

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
1	343	11	3¼	316	19	7½	604	4	3½
	118	17	2	172	16	3	712	12	0¾
	731	18	7½	352	3	4½	172	11	5½
2	64	19	7½	63	10	3¾	172	3	2¼
	731	18	3¾	37	7	0½	19	7	0½
	82	16	3	44	11	7½	33	13	5¼
3	37	3	0¾	53	2	5¼	43	12	7½
	91	6	1½	316	19	3¾	28	16	0½
	55	3	2¼	28	17	2	64	19	7½

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
4	40	8	2	61	12	7½	37	16	3
	19	17	11¼+16	82	13	0½+12	163	18	11½+15
	208	16	3½+115	199	11	3½+21	505	3	4½

(d) £	s.	d.
28	5	0¼
135	13	6¼+33
604	0	1¼+13

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
5	197	12	5¼	181	15	1½	217	19	4½+12
	807	16	2½+35	316	12	7½+115	136	13	6¼+122
	415	19	1½+114	541	11	3½+2	307	11	8½+25

(*d*)

£	*s.*	*d.*
118	19	$0\frac{3}{4}+12$
703	13	$6\frac{1}{2}+43$
415	0	$7\frac{1}{2}$

6

(*a*)

£	*s.*	*d.*
91	17	$2\frac{1}{2}+1204$
1003	13	$2\frac{1}{2}+14$
811	11	$1\frac{1}{4}+13$

(*b*)

£	*s.*	*d.*
604	1	$6\frac{1}{2}$
3016	13	$1\frac{1}{2}+11$
901	15	$1\frac{1}{2}$

(*c*)

£	*s.*	*d.*
451	0	$3\frac{1}{2}+121$
1018	7	3
352	12	$7\frac{1}{2}+34$

(*d*)

£	*s.*	*d.*
36	18	2
802	14	$5\frac{1}{2}+25$
172	19	$1\frac{3}{4}+11$

7

(*a*)

£	*s.*	*d.*
7	12	$2\frac{1}{2}+122$
0	19	$11\frac{1}{2}+32$
0	13	$3\frac{1}{2}$

(*b*)

£	*s.*	*d.*
6	13	$3\frac{3}{4}$
0	18	$11\frac{1}{2}+24$
0	12	$1\frac{1}{2}+111$

(*c*)

£	*s.*	*d.*
9	13	$1\frac{1}{2}+21$
0	14	$11\frac{1}{2}$
0	13	$0\frac{1}{2}+12$

(*d*)

£	*s.*	*d.*
8	11	$2\frac{1}{2}+12$
0	15	4
0	11	$1\frac{1}{2}+13$

REDUCTION OF WEIGHTS AND MEASURES.

1

(*a*) 134291 oz.
5143241 ,,
11837 ,,

(*b*) 307172 drs.
911018 ,,
35273 lbs.

(*c*)

14 t.	14 c.	3 q.	25 lbs.	0 oz.	
19 ,,	18 ,,	1 ,,	19 ,,	0 ,,	
0 ,,	17 ,,	2 ,,	11 ,,	8 ,,	

(*d*)

0 t.	1 c.	3 q.	15 lbs.	0 oz.	
1 ,,	14 ,,	2 ,,	25 ,,	14 ,,	
0 ,,	3 ,,	3 ,,	13 ,,	0 ,,	

2

(*a*) 9182 grs.
21313 ,,
901 ,,

(*b*) 8011 grs.
4123 dwts.
1018 grs.

(*c*)

37 lbs.	11 oz.	17 dwts.	19 grs.	
8 ,,	2 ,,	15 ,,	13 ,,	
134 ,,	2 ,,	17 ,,	11 ,,	

(*d*)

0 lbs.	11 oz.	13 dwts.	13 grs.	
82 ,,	11 ,,	17 ,,	0 ,,	
736 ,,	4 ,,	0 ,,	0 ,,	

	(a)	(b)
3	145325 sq. yds. 9146172 ,, 100162 sq. in.	118343 sq. in. 4105613 ,, yds. 712316 ,, ,,

	(c)	(d)
	8 a. 2 r. 0 p. 17 yds. 2 ft.	826 a. 1 r. 12 p. 0 yds.
	14 ,, 3 ,, 20 ,, 0 ,, 0 ,,	0 ,, 0 ,, 12 ,, 16 ,,
	415 ,, 1 ,, 36 ,, 0 ,, 0 ,,	0 ,, 0 ,, 24 ,, 13 ,,

	(a)	(b)	(c)	(d)
4	1723124 in.	712 in.	19 m. 2 f. 26 p.	28 poles
	712802 ,,	1423 ,,	343 ,, 5 ,, 14 ,,	44 p. 2 yds.
	82163 yds.	10207 ,,	28 ,, 6 ,, 22 ,,	631 miles.
5	7102046 hf.-pts.	194321 galls.	19 q. 7 bush. 3 pks.	37 bush.
	4519137 ,,	70319 pecks	350 b. 1 pk. 1 gall.	4 bush. 6 gall.
	71246 qts.	11431 hf.-pts.	46 qrs.	118 qrs.
6	316 hhds.	37 hhds.	13 cu. yds. 15 f. 73 in.	172 yrs.
	5564 gills	37 galls.	334604 cu. in.	19 yrs. 37 wks.
	648 g. 1 qt. 1 pt.	16 gall. 2 qt. 1 pt.	73 cu. yds. 8 f. 282 in.	7319073 sec.

PROBLEMS.

A.	(1)	£8 2*s.* 7½*d.*	B. (1)	19*s.* 3¾*d.*	C. (1)	£4 6*s.* 7½*d.*
	(2)	64 lbs.	(2)	6*s.* 4*d.*	(2)	154 lbs.
	(3)	712 parcels	(3)	127 miles	(3)	316 packets
D.	(1)	£3 16*s.* 7½*d.*	E. (1)	£3 7*s.* 3¾*d.*	F. (1)	£5 5*s.*
	(2)	118 bks.	(2)	109 pigs	(2)	13*s.* 6*d.*
	(3)	28 lbs.	(3)	55 casks	(3)	172
G.	(1)	£63 1*s.*	H. (1)	£4 6*s.*	I. (1)	£1 3*s.* 3½*d.*
	(2)	154 yds.	(2)	5*s.* 11½*d.*	(2)	235
	(3)	73 reams	(3)	613 packets	(3)	28 galls.
J.	(1)	£12 1*s.* 3½*d.*	K. (1)	15*s.* 1½*d.*	L. (1)	£2 17*s.*
	(2)	3*s.* 4½*d.*	(2)	7½*d.*	(2)	73 acres
	(3)	424 persons	(3)	19 gardens	(3)	37 gardens

M.	(1)	£14 1*s.* 1½*d.*	N. (1)	19*s.* 3¾*d.*	
	(2)	£17 11*s.* 3¾*d.*	(2)	1*s.* 4½*d.*	
	(3)	172 packets	(3)	19 cwt.	
O.	(1)	£2 13*s.* 4*d.*	P. (1)	£3 13*s.* 3*d.*	
	(2)	£7 12*s.* 5½*d.*	(2)	7½*d.*	
	(3)	73 persons	(3)	55 doz.	

ANSWERS TO STANDARD V.

BILLS.

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
1	0	9	2½	0	12	3¼	1	10	10½
	6	15	4	4	9	5½	3	6	4¼
	12	13	4	3	2	6	3	14	5
	0	1	6¾	0	17	1	1	0	9¾
	19	19	5¼	9	1	3¾	9	12	5¼
	(a)			(b)			(c)		
2	5	10	5	2	1	2½	2	19	7½
	0	13	1¼	16	8	3	3	0	2
	4	10	3	0	12	3¼	2	18	5½
	0	18	3	0	5	6¼	0	13	6
	11	12	0¼	19	7	3	9	11	9
	(a)			(b)			(c)		
3	1	10	4¼	4	14	3½	0	18	7¼
	4	10	1½	0	18	2½	3	9	5¼
	5	2	4½	1	6	11¾	3	13	11¼
	0	2	4¾	0	12	10	0	18	1¼
	11	5	3	7	12	3¾	9	0	1
	(a)			(b)			(c)		
4	3	9	11½	3	14	9¼	13	10	10
	0	2	4½	5	0	10¼	2	18	9¼
	2	13	1	3	13	2¾	3	9	6¼
	0	4	10	0	5	3¾	0	11	11¾
	6	10	3	12	14	2	20	11	1¼

5

(a) £	s.	d.
0	12	11½
1	6	0
0	2	3½
0	18	11½
3	0	2½

(b) £	s.	d.
0	13	10½
2	5	6
0	9	11½
0	11	11
4	1	2⅓

(c) £	s.	d.
1	2	0½
0	1	10¾
1	7	11⅝
0	10	1¼
3	2	0¼

6

(a) £	s.	d.
0	13	10½
1	7	5
0	8	3¾
0	7	8¾
2	17	3¾

(b) £	s.	d.
0	6	2¾
3	0	11½
1	3	8¾
0	12	3
5	3	2

(c) £	s.	d.
0	14	4½
0	15	8
0	12	6
0	18	6¾
3	1	1¼

7

(a) £	s.	d.
1	12	5½
16	10	5½
0	13	0
0	15	4¼
19	11	3¼

(b) £	s.	d.
1	14	8½
0	18	8½
1	10	10½
0	16	1¾
5	0	5

(c) £	s.	d.
2	17	11¾
1	3	6¾
1	6	3
0	13	3
6	1	0½

8

(a) £	s.	d.
0	17	6
0	1	4½
0	19	2
17	5	4
19	3	4½

(b) £	s.	d.
0	2	8½
0	14	2½
1	1	0
1	13	6
3	11	5

(c) £	s.	d.
0	5	6
4	1	9¾
0	7	0½
1	0	3¼
5	14	7½

9

(a) £	s.	d.
1	1	2
13	15	10
2	0	6
0	13	6
17	11	0

(b) £	s.	d.
258	7	6
108	15	5
240	16	6
2	11	8
610	11	1

(c) £	s.	d.
6	19	6
20	0	6
0	13	1½
0	7	6
28	0	7½

10

(a) £	s.	d.
16	6	6¾
2	2	9
0	6	8½
0	3	0¾
18	19	1

(b) £	s.	d.
0	16	3½
3	15	0
0	4	4½
0	18	11⅓
5	14	7½

(c) £	s.	d.
0	12	5⅓
0	11	5¾
2	2	2
0	15	3¾
4	1	5

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
11	21	5	3	20	10	2	2	11	$9\frac{1}{4}$
	1	18	0	1	15	0	2	19	$4\frac{1}{2}$
	1	3	10	3	8	3	0	5	$11\frac{1}{2}$
	1	14	0	0	6	9	1	4	$0\frac{3}{4}$
	26	1	1	26	0	2	7	1	2
	(a)			(b)			(c)		
12	20	11	$1\frac{1}{2}$	2	1	$1\frac{1}{2}$	3	15	$8\frac{1}{2}$
	0	7	6	0	4	9	0	3	$11\frac{1}{2}$
	1	5	6	0	12	0	18	9	9
	1	17	$1\frac{1}{2}$	0	15	2	1	3	6
	24	1	3	3	13	$0\frac{1}{2}$	23	12	11
	(a)			(b)			(c)		
13	1	3	$11\frac{1}{2}$	0	5	8	0	4	9
	0	3	3	0	1	2	1	19	1
	0	1	$3\frac{3}{4}$	1	18	$5\frac{1}{2}$	0	0	6
	0	14	$10\frac{3}{4}$	0	19	$10\frac{1}{4}$	1	10	9
	2	3	5	3	5	2	3	15	1
	(a)			(b)			(c)		
14	14	18	$1\frac{1}{2}$	77	12	6	0	0	$3\frac{3}{4}$
	1	17	6	7	10	0	0	6	0
	3	2	6	0	2	0	0	12	9
	0	16	$1\frac{1}{2}$	5	19	$9\frac{1}{2}$	1	3	$11\frac{1}{2}$
	20	14	3	91	4	$3\frac{1}{2}$	2	3	$0\frac{1}{4}$
	(a)			(b)			(c)		
15	0	14	$7\frac{1}{2}$	0	2	11	0	12	$9\frac{3}{4}$
	2	5	$1\frac{1}{2}$	3	5	$7\frac{1}{2}$	5	2	8
	1	11	$9\frac{1}{2}$	3	16	$0\frac{1}{2}$	0	8	$9\frac{3}{4}$
	0	18	0	2	3	$3\frac{1}{4}$	0	5	10
	0	10	$9\frac{1}{2}$	0	8	$5\frac{3}{4}$	0	3	6
	6	0	4	9	16	4	6	13	$7\frac{1}{2}$
	(a)			(b)			(c)		
16	11	7	6	39	16	$10\frac{1}{2}$	0	4	$3\frac{3}{4}$
	0	11	1	0	7	1	4	0	9
	2	14	$7\frac{1}{2}$	2	12	6	2	8	2
	1	0	10	2	17	6	0	8	4
	0	9	7	0	17	$2\frac{1}{4}$	0	10	9
	16	3	$7\frac{1}{2}$	46	11	$1\frac{3}{4}$	7	12	$3\frac{3}{4}$

17

(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
0	11	3	1	1	6¾	3	6	1¼
2	12	6	0	17	3	2	19	6
0	13	6½	1	12	6	5	19	1¾
0	8	9	0	11	8	1	7	9
0	18	11½	0	18	6¾	0	12	8½
5	5	0	5	1	1½	14	5	7½

18

(a)			(b)			(c)		
6	1	4	0	9	4¾	1	11	3¾
1	12	0	3	18	1½	2	15	11
1	6	10	1	2	6	0	14	3
1	1	0	4	4	4½	0	7	0½
0	19	10¾	0	4	8¼	1	4	9½
11	1	0¾	9	19	1	6	13	3¾

19

(a)			(b)			(c)		
4	17	8	25	16	0	1	19	9½
0	11	3	95	9	0	2	1	0¾
0	7	0	133	16	6	3	17	11
0	11	10½	418	19	0	8	2	6
0	15	10	29	1	3	0	18	11
7	3	7½	703	1	9	17	0	2

20

1	13	9	1	13	11	5	0	7
0	14	0¾	4	2	6	2	12	9¾
0	8	9	0	11	6	2	18	8
3	18	9	0	16	11½	2	1	3
0	17	1½	1	6	6¾	0	7	2¼
7	12	5¼	8	11	5¼	13	0	6

21

(a)			(b)			(c)		
0	11	3	2	4	9½	7	8	9
0	10	3½	1	2	6	2	18	6
0	3	1½	1	13	7	3	14	9
0	8	4¾	0	17	3	165	4	0
0	5	3	0	15	3¾	1	14	0
1	18	3¾	6	13	5¼	181	0	0

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
22	9	10	0	3	2	1½	0	8	5½
	0	12	4½	5	0	7	0	16	1¾
	5	1	3	0	11	6¼	0	14	0
	10	19	4	0	10	6¾	3	19	2
	0	18	8	0	9	6	0	2	6¾
	27	1	7½	9	14	3½	6	0	4

	(a)			(b)			(c)		
23	5	7	4	2	2	0	18	7	10½
	3	3	1½	0	3	9	1	10	10½
	0	2	7½	2	3	11½	6	1	4
	1	3	2¼	8	9	10½	2	6	0
	0	2	9¾	0	11	9	9	12	0
	9	19	1	13	11	4	37	18	1

	(a)			(b)			(c)		
24	39	16	10¼	1	14	0¼	1	11	3¾
	42	2	10½	0	16	11¼	8	2	6
	3	18	9	0	19	2	4	18	8½
	10	19	0	6	15	0	0	14	10½
	8	15	6	0	17	10½	0	16	0½
	105	13	0	11	3	0¼	16	3	5¼

PRACTICE.

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
1	172	19	0	181	17	2	163	19	0
	205	12	5½	316	19	7½	172	13	3½
	361	12	4½	307	11	1¾	421	12	7½
2	172	13	3½	737	12	7½	645	11	0½
	712	14	2½	802	15	1½	911	12	3½
	811	18	1	801	13	4½	827	12	7½
3	712	19	0	463	16	3¾	172	19	3¾
	734	15	3¾	1216	12	0¾	918	11	3¾
	1243	0	3¾	289	13	0¾	1918	11	9
4	191	14	4	913	11	2½	642	17	3¾
	213	13	5¼	1215	11	6½	1723	16	3¾
	514	16	0½	1414	15	1½	1811	11	0¾

	(a) £ s. d.	(b) £ s. d.	(c) £ s. d.
5	1918 15 5	1279 15 2½	2017 0 7½
	1631 18 7½	1017 13 4½	1221 13 7½
	1423 15 1½	1911 13 1½	2611 6 1½
6	3713 15 3¾	3115 19 0	3313 19 0
	7319 0 5½	1207 5 2½	2714 15 3¾
	7102 16 3	2116 0 3¾	1513 0 7½
7	3115 19 0	1722 17 7½	2125 1 9
	1911 13 1½	1937 15 1½	2827 13 2½
	1621 0 7½	6133 3 1½	1912 3 1½
8	1365 0 2½	1171 19 0	2080 1 9
	1270 12 4½	1108 16 3	1432 0 7½
	1306 4 3½	1621 0 7½	1513 0 7½
9	1117 0 7½	1711 13 6	18100 11 5½
	1315 15 4	7111 11 8	3115 0 7½
	1513 0 7½	1252 5 5	1144 0 7½
10	13123 0 0	1189 10 0	19325 0 0
	3524 15 0	2819 11 8	2084 15 3¾
	3151 1 9	1927 15 5	17213 15 0
11	23131 19 0	8219 12 4½	51132 13 4
	5131 5 5	81155 0 0	3072 13 4
	1117 0 7½	7213 16 0	13123 0 0
12	13154 15 0	37415 11 8	4155 14 7½
	181910 0 0	71119 10 0	13154 15 0
	73282 13 4	19325 0 0	12713 15 0
13	712910 0 0	102713 15 0	100913 15 0
	50519 5 5	520372 10 0	197319 0 7½
	109235 5 5	315182 0 7½	737012 0 7½
14	7215 5 0	19315 15 5	13519 10 0
	910013 15 0	127131 5 0	193713 15 0
	193713 15 0	913713 15 0	100913 15 0
15	735112 10 0	1531131 5 0	1910512 10 0
	913740 15 0	910131 5 0	2171913 15 0
	919113 15 0	913312 10 0	2711031 5 0
16	372813 15 0	70313 15 0	1171131 5 0
	918282 0 7½	311519 0 7½	917313 15 0
	25319 5 5	1813713 15 0	821913 15 0
17	73 19 7½	135 15 2½	28 5 5
	171 15 5	36 10 7½	72 15 5
	64 11 5½	112 15 0	103 15 0

	(a) £	s.	d.	(b) £	s.	d.	(c) £	s.	d.
18	54	10	7½	55	5	2½	72	15	5
	11	13	1½	17	11	3¾	113	5	5¼
	82	19	3¾	31	15	5¼	37	17	2
19	2017	0	7½	2071	5	5	3052	0	7½
	3123	15	5	1031	5	0	211	15	7½
	91	13	1¼	103	15	7½	312	13	7½
20	2134	5	5	73	19	7½	40	15	3¾
	711	15	5	163	0	7½	711	13	2¼
	171	15	2½	13	15	0	81	15	5

SIMPLE PROPORTION.

A. (1) £1 6*s.* 3*d.*
(2) £1 12*s.* 6*d.*
(3) £14 14*s.*

B. (1) £33 11*s.* 11*d.*
(2) £91
(3) £118

C. (1) £35 11*s.* 7½*d.*
(2) 19 tons
(3) 154 yds.

D. (1) 28 tons
(2) 325 lbs.
(3) 352 lbs.

E. (1) 17 t. 2 c.
(2) £17 2*s.*
(3) £12 16*s.*

F. (1) £13 15*s.*
(2) £17 2*s.*
(3) 172 miles

G. (1) 21 t. 7 cwt.
(2) 15*s.* 4*d.*
(3) £82 19*s.*

H. (1) 19 tons
(2) 14 t. 12 c. 2 qr.
(3) £28 17*s.* 2*d.*

I. (1) 73 miles
(2) 55 days
(3) 154 a.

J. (1) £53 2*s.*
(2) 103 a. 24 p.
(3) 136 tons

K. (1) 1144 lbs.
(2) £15 0*s.* 4*d.*
(3) £80 11*s.*

L. (1) £5 3*s.* 2*d.*
(2) £4 15*s.*
(3) 154 books

M. (1) £415
(2) 17 m. 2 f.
(3) 115 yds. 3 qrs.

N. (1) 112 a. 3 r. 12 p.
(2) £61 12*s.*
(3) £424

O. (1) £154 15*s.* 4*d.*
(2) 19 m. 5 f. 14 p.
(3) £181 19*s.*

P. (1) £25 12*s.*
(2) £15 1*s.* 3*d.*
(3) £13 15*s.*

Q. (1) £2 13*s.* 4*d.*
(2) £35 11*s.*
(3) 28 days

R. (1) £24 4*s.*
(2) £7 12*s.*
(3) 12*s.* 7*d.*

S. (1) £7 12*s.*
(2) 27 d. 14 h. 24 m.
(3) £172 19*s.*

T. (1) £6 1*s.* 3*d.*
(2) £5 3*s.* 2*d.*
(3) £64 19*s.*

U. (1) 55 hours
(2) £91 13*s.* 6*d.*
(3) £7 12*s.* 7½*d.*

V. (1) £70 12*s.*
(2) £12 7*s.*
(3) 2 days 8 hours

W. (1) £145
(2) 712 gallons
(3) 118 men

X. (1) £19 15*s.* 4*d.*
(2) £181 19*s.*
(3) 28 days

Y. (1) £8 2*s.*
(2) £2 6*s.* 2*d.*
(3) £28 11*s.* 8*d.*

Z. (1) £4 13*s.* 2*d.*
(2) £1405
(3) £19 19*s.*

ANSWERS TO STANDARD VI.

VULGAR FRACTIONS.

Improper Fractions.

	(a)	(b)	(c)	(d)
1	$\frac{13}{4}$ $\frac{21}{5}$ $\frac{31}{6}$	$\frac{23}{8}$ $\frac{57}{6}$ $\frac{55}{11}$	$\frac{13}{8}$ $\frac{21}{5}$ $\frac{57}{8}$	$\frac{13}{8}$ $\frac{57}{8}$ $\frac{40}{8}$
	$\frac{67}{11}$ $\frac{60}{10}$ $\frac{73}{8}$	$\frac{41}{5}$ $\frac{54}{7}$ $\frac{71}{10}$	$\frac{91}{10}$ $\frac{43}{5}$ $\frac{80}{8}$	$\frac{67}{11}$ $\frac{83}{9}$ $\frac{73}{7}$
	$\frac{53}{5}$ $\frac{80}{8}$ $\frac{100}{9}$	$\frac{45}{8}$ $\frac{91}{11}$ $\frac{40}{5}$	$\frac{71}{8}$ $\frac{111}{12}$ $\frac{111}{10}$	$\frac{80}{9}$ $\frac{100}{11}$ $\frac{123}{13}$
2	$\frac{160}{8}$ $\frac{200}{15}$ $\frac{100}{11}$	$\frac{214}{11}$ $\frac{103}{11}$ $\frac{244}{11}$	$\frac{112}{18}$ $\frac{100}{18}$ $\frac{244}{18}$	$\frac{100}{11}$ $\frac{72}{9}$ $\frac{72}{8}$
	$\frac{232}{13}$ $\frac{268}{13}$ $\frac{244}{18}$	$\frac{1714}{11}$ $\frac{2833}{11}$ $\frac{1877}{10}$	$\frac{1360}{18}$ $\frac{1804}{11}$ $\frac{1877}{10}$	$\frac{1440}{88}$ $\frac{2871}{11}$ $\frac{7740}{88}$
	$\frac{2640}{85}$ $\frac{10088}{91}$	$\frac{2041}{10}$ $\frac{2442}{11}$	$\frac{2332}{88}$ $\frac{1300}{78}$	$\frac{1368}{78}$ $\frac{872}{11}$

Whole or Mixed Numbers.

	(a)	(b)	(c)	(d)
1	3 $1\frac{3}{5}$ $4\frac{1}{2}$	2 $1\frac{1}{7}$ $2\frac{1}{8}$	4 $1\frac{3}{5}$ $1\frac{9}{7}$	10 $3\frac{3}{8}$ $2\frac{5}{7}$
	$2\frac{1}{3}$ $1\frac{1}{7}$ $4\frac{1}{3}$	$2\frac{1}{6}$ $3\frac{7}{8}$ $1\frac{3}{9}$	$2\frac{1}{7}$ $1\frac{3}{11}$ $1\frac{7}{11}$	$1\frac{4}{11}$ $3\frac{1}{4}$ $2\frac{1}{7}$
	$1\frac{1}{11}$ $1\frac{5}{8}$ 6	$3\frac{7}{11}$ $8\frac{1}{10}$ 9	$8\frac{4}{5}$ $8\frac{3}{11}$ 12	$8\frac{3}{11}$ $12\frac{3}{7}$ 8
2	$7\frac{10}{13}$ $5\frac{3}{9}$ $5\frac{11}{15}$	$10\frac{1}{18}$ $7\frac{4}{11}$ 16	$2\frac{7}{18}$ $14\frac{11}{18}$ $25\frac{3}{11}$	$9\frac{4}{11}$ $31\frac{10}{9}$ $8\frac{4}{11}$
	$4\frac{37}{8}$ $4\frac{7}{8}$ $31\frac{3}{15}$	$24\frac{4}{17}$ $30\frac{3}{88}$ $1\frac{17}{101}$	$3\frac{11}{81}$ $7\frac{73}{81}$ $4\frac{3}{27}$	$32\frac{3}{11}$ $9\frac{3}{88}$ $6\frac{3}{88}$
	$13\frac{1}{88}$ $229\frac{14}{21}$	$13\frac{3}{70}$ $12\frac{378}{111}$	$32\frac{4}{15}$ $9\frac{44}{111}$ $8\frac{37}{97}$	$7\frac{140}{118}$ $81\frac{110}{111}$

Simple Fractions.

	(a)	(b)	(c)	(d)
1	$\frac{3}{8}$ $\frac{34}{78}$ $\frac{88}{80}$	$\frac{34}{98}$ $\frac{11}{44}$ $\frac{770}{8800}$	$\frac{10}{98}$ $\frac{1}{18}$ $\frac{104}{1080}$	$\frac{3}{18}$ $\frac{1}{80}$ $\frac{7}{10}$
2	$\frac{7}{24}$ $\frac{448}{1080}$ $\frac{7}{18}$	$\frac{10}{11}$ $\frac{11}{44}$ $\frac{770}{1760}$	$\frac{409}{3080}$ $\frac{6}{11}$ $\frac{63}{4480}$	$\frac{7}{18}$ $\frac{1}{4}$ $\frac{3}{8}$

Greatest Common Measure.

	(a)	(b)	(c)	(d)
1	2 5 2	2 5 7	3 5 4	4 5 11
2	39 51 34	53 173 103	26 69 44	54 33 21
3	55 315 282	33 91 719	85 133 47	138 34 203

Lowest Terms.

	(a)	(b)	(c)	(d)
1	$\frac{1}{2}$ $\frac{1}{3}$ $\frac{3}{8}$	$\frac{1}{3}$ $\frac{1}{4}$ $\frac{3}{4}$	$\frac{1}{6}$ $\frac{3}{5}$ $\frac{5}{8}$	$\frac{4}{9}$ $\frac{1}{9}$ $\frac{1}{10}$
	$\frac{3}{4}$ $\frac{3}{5}$ $\frac{4}{8}$	$\frac{4}{9}$ $\frac{1}{8}$ $\frac{1}{4}$	$\frac{2}{5}$ $\frac{3}{4}$ $\frac{1}{9}$	$\frac{5}{11}$ $\frac{8}{9}$ $\frac{7}{10}$
	$\frac{1}{8}$ $\frac{1}{7}$ $\frac{3}{8}$	$\frac{3}{9}$ $\frac{4}{9}$ $\frac{1}{6}$	$\frac{3}{8}$ $\frac{4}{9}$ $\frac{3}{6}$	$\frac{14}{17}$ $\frac{13}{13}$ $\frac{6}{37}$
2	$\frac{17}{18}$ $\frac{3}{11}$	$\frac{13}{88}$ $\frac{4}{6}$	$\frac{7}{11}$ $\frac{7}{11}$	$\frac{7}{11}$ $\frac{18}{80}$
	$\frac{7}{18}$ $\frac{13}{18}$	$\frac{31}{46}$ $\frac{28}{80}$	$\frac{13}{85}$ $\frac{7}{8}$	$\frac{4}{9}$ $\frac{17}{18}$
	$\frac{13}{55}$ $\frac{11}{11}$	$\frac{13}{19}$ $\frac{77}{78}$	$\frac{13}{31}$ $\frac{11}{13}$	$\frac{11}{30}$ $\frac{17}{30}$

Least Common Multiple.

	(a)	(b)	(c)	(d)
1	120 672 252	90 660 72	360 720 960	840 264 420
2	39780	20088	2520	
	25200	833910	865260	
	219450	1686030	491400	

Common Denominators.

	(a)	(b)	(c)
1	315 490 540 84 / 840	54 110 45 56 / 120	1470 378 480 1925 / 2100
	42 525 196 60 / 840	450 770 588 1925 / 2100	200 77 75 330 / 550
	48 7 65 54 / 90	315 350 304 154 / 560	525 4290 2520 637 / 5460

(d)

2200 455 468 1900 / 2600

1440 891 550 216 / 1980

99 135 70 400 / 450

ADDITION.

	(a)	(b)	(c)	(d)
1	$12\frac{2}{3}$ $1\frac{1}{2}\frac{0}{7}\frac{0}{0}$ $1\frac{3}{5}\frac{1}{6}\frac{1}{0}$	$1\frac{3}{8}\frac{8}{0}$ $1\frac{6}{4}\frac{7}{9}\frac{7}{0}$ $1\frac{1}{3}\frac{1}{4}$	$1\frac{0}{1}\frac{0}{4}\frac{0}{0}$ $1\frac{6}{7}\frac{0}{8}\frac{1}{0}$ $1\frac{0}{8}\frac{0}{0}\frac{6}{0}\frac{7}{0}$	$1\frac{4}{1}\frac{1}{4}\frac{1}{0}$ $1\frac{8}{1}\frac{0}{1}\frac{0}{0}$ $1\frac{1}{1}\frac{4}{3}$
2	$10\frac{1}{3}$ $16\frac{1}{2}\frac{3}{4}\frac{1}{0}$ $14\frac{7}{2}\frac{7}{8}$	$27\frac{2}{4}\frac{3}{0}$ $19\frac{7}{1}\frac{7}{0}\frac{1}{0}$ $5\frac{1}{4}\frac{0}{3}\frac{8}{0}$	$22\frac{2}{1}\frac{1}{4}\frac{1}{7}$ $33\frac{1}{8}\frac{8}{0}\frac{8}{0}$ $1\frac{2}{4}$	$25\frac{7}{1}\frac{1}{3}\frac{1}{0}$ $11\frac{6}{4}\frac{1}{0}\frac{1}{0}$ $14\frac{2}{4}\frac{3}{8}$

SUBTRACTION.

	(a)	(b)	(c)	(d)
1	$\frac{4}{5}\frac{2}{4}$ $\frac{1}{8}\frac{3}{0}$ $\frac{3}{1}\frac{1}{2}\frac{0}{0}$	$\frac{1}{8}\frac{0}{0}$ $\frac{5}{2}\frac{4}{4}$ $\frac{4}{3}\frac{5}{8}$	$\frac{1}{1}\frac{1}{2}\frac{3}{0}$ $\frac{1}{1}\frac{1}{2}\frac{2}{5}$ $\frac{2}{9}\frac{5}{6}$	$\frac{1}{2}\frac{3}{4}$ $\frac{1}{1}\frac{9}{2}\frac{9}{0}$ $\frac{2}{4}\frac{1}{0}$
2	$1\frac{1}{4}$ $8\frac{4}{1}\frac{5}{6}$ $\frac{5}{8}$	$2\frac{4}{5}\frac{5}{0}$ $15\frac{1}{8}$ $\frac{4}{8}\frac{2}{6}$	$2\frac{3}{5}\frac{2}{0}$ $1\frac{1}{8}$ $\frac{3}{1}\frac{3}{0}\frac{3}{0}$	$2\frac{3}{5}\frac{2}{0}\frac{3}{0}$ $\frac{1}{2}\frac{1}{8}$ $\frac{1}{4}\frac{0}{2}\frac{2}{0}$

MULTIPLICATION.

	(a)	(b)	(c)	(d)
1	$\frac{4}{5}\frac{4}{9}$ $\frac{4}{3}\frac{4}{5}$ $4\frac{4}{5}$	$\frac{3}{8}\frac{1}{4}$ $\frac{7}{7}\frac{7}{2}$ $\frac{1}{4}\frac{1}{4}$	$\frac{1}{3}\frac{1}{0}$ $\frac{1}{8}\frac{1}{4}$ $2\frac{1}{1}\frac{3}{2}$	$\frac{3}{8}\frac{7}{7}\frac{1}{4}$ $\frac{1}{4}\frac{1}{5}$ $4\frac{1}{3}$
2	$1\frac{3}{8}\frac{4}{3}$ $\frac{1}{1}\frac{1}{6}$ $\frac{4}{1}\frac{3}{2}\frac{3}{8}$	$\frac{1}{1}\frac{4}{6}\frac{2}{0}$ $\frac{7}{9}\frac{7}{0}$ $\frac{1}{1}\frac{2}{0}$	$\frac{2}{3}\frac{4}{5}$ $\frac{2}{8}\frac{1}{4}$ $\frac{1}{1}\frac{1}{6}$	$1\frac{3}{8}\frac{4}{5}$ $\frac{7}{1}\frac{7}{6}\frac{5}{0}$ $\frac{1}{1}\frac{1}{6}$

DIVISION.

	(a)	(b)	(c)	(d)
1	2 $2\frac{1}{3}$ $\frac{7}{3}\frac{5}{5}$	$2\frac{4}{5}$ $\frac{1}{4}$ $2\frac{1}{2}\frac{1}{5}$	$1\frac{3}{1}\frac{5}{6}$ $\frac{1}{3}$ $\frac{1}{4}$	$\frac{4}{5}$ $1\frac{1}{7}$ $2\frac{4}{6}\frac{3}{3}$
2	$\frac{3}{7}$ $1\frac{1}{4}\frac{1}{1}$ $1\frac{4}{3}\frac{1}{1}$	$2\frac{3}{5}$ $2\frac{4}{3}\frac{1}{1}$ $1\frac{1}{2}$	$1\frac{1}{1}\frac{1}{4}$ $\frac{1}{2}\frac{3}{4}$ $1\frac{1}{3}$	$3\frac{7}{1}\frac{7}{6}$ $7\frac{1}{4}\frac{1}{3}$ $\frac{1}{3}\frac{1}{6}$

Simplification.

	(a)	(b)	(c)	(d)
1	$\frac{3}{8}$ $\frac{3\frac{1}{3}}{4}$ $5\frac{1}{2}$	$\frac{9}{10}$ $\frac{4\frac{1}{2}}{5}$ $1\frac{2}{7}$	$1\frac{1}{3}$ $1\frac{1}{17}$ $2\frac{1}{2}$	$\frac{11}{12}$ $\frac{9}{10}$ $2\frac{1}{2}$
	$\frac{1}{1}\frac{2}{3}\frac{1}{4}$ 3	$\frac{4}{5}$ $\frac{1}{10}\frac{8}{9}\frac{1}{4}$	$20\frac{5}{8}$ $\frac{5}{2}\frac{5}{6}$	$1\frac{1}{3}$ $\frac{1}{1}\frac{7}{8}$
2	$93\frac{1}{2}$ $4\frac{4}{15}$ $39\frac{5}{14}$	$7\frac{7}{17}$ $11\frac{2}{3}\frac{9}{6}\frac{1}{1}$ $25\frac{3}{11}\frac{4}{5}$	$12\frac{1}{14}$ $14\frac{6}{15}\frac{1}{0}$ $1\frac{2}{3}\frac{3}{3}$	$9\frac{4}{2}\frac{6}{5}\frac{7}{7}$ $\frac{3}{3}\frac{1}{6}\frac{2}{4}$ $65\frac{1}{1}\frac{5}{7}$

REDUCTION.

	(a)	(b)	(c)
1	11*s.* 8*d.* 7*s.* 6*d.* $2\frac{1}{2}$*d.*	7*s.* 6*d.* 18*s.* $6\frac{3}{4}$*d.*	$2\frac{1}{2}$*d.* 17*s.* 6*d.* 4*s.* 6*d.* $3\frac{1}{2}$*d.*
	£4 13*s.* 9*d.*	£1 5*s.*	£2 5*s.*
	7 c. 2 q. 1 q. 12 lb.	1 c. 3 q. 1 c. 3 q. 14 lb.	12 p. 4 c. 2 q. 16 lb.

(d)

5*s.* 10*d.* $11\frac{1}{2}$*d.* $8\frac{1}{2}$*d.*
£6 1*s.* 11*d.*
12 lbs.

	(a)	(b)	(c)
2	13*s.* 1*d.*	£1 0*s.* 1*d.*	£2 8*s.* $7\frac{3}{4}$*d.*
	3 q. 20 lbs.	1 q. 26 lbs.	1 c. 3 q. 23 lbs.
	3 days 12 hours	4 acres	1 t. 15 c. 2 q. 24 lbs.

(d)

8*s.* 6*d.*
16 c. 5 lbs.
4 t. 16 c. 1 q. 20 lbs.

	(a)			(b)			(c)		
3	$\frac{1}{0}\frac{7}{0}$	$\frac{8}{1}\frac{1}{2}\frac{1}{0}$	$\frac{8}{2}\frac{8}{0}\frac{7}{0}$	$\frac{1}{1}\frac{1}{2}$	$\frac{1}{1}\frac{1}{2}\frac{9}{0}$	$\frac{4}{2}\frac{7}{4}\frac{7}{0}$	$\frac{1}{1}\frac{4}{2}$	$\frac{8}{1}\frac{1}{2}$	$\frac{4}{8}\frac{4}{0}\frac{7}{0}$
4	$\frac{3}{1}\frac{5}{6}$	$\frac{7}{8}$	$\frac{8}{2}\frac{1}{4}$	$\frac{3}{4}\frac{7}{0}$	$\frac{3}{8}\frac{1}{0}$	$\frac{9}{2}\frac{3}{4}$	$\frac{1}{1}\frac{4}{2}$	$\frac{8}{2}\frac{1}{4}$	$\frac{3}{1}\frac{4}{6}$
5	$\frac{3}{1}\frac{5}{6}$	$\frac{1}{2}\frac{5}{6}$	$3\frac{1}{2}\frac{4}{3}$	$\frac{3}{2}\frac{5}{6}\frac{0}{0}$	$\frac{3}{2}\frac{4}{4}\frac{1}{0}$	$\frac{7}{1}\frac{5}{0}$	$\frac{1}{1}\frac{5}{6}$	$\frac{3}{2}\frac{4}{4}\frac{7}{0}$	$\frac{3}{1}\frac{5}{0}$

MISCELLANEOUS EXAMPLES.

A. (1) 60 yards
(2) $9\frac{1}{3}$ times
(3) $5\frac{1}{10}$

B. (1) 15*s.* $4\frac{8}{17}$*d.*
(2) £2 16*s.* 3*d.*
(3) $153\frac{3}{4}$

C. (1) $\frac{4}{3}\frac{0}{1}\frac{0}{5}$ $\frac{3}{3}\frac{4}{1}\frac{5}{5}$ $\frac{4}{3}\frac{4}{1}\frac{5}{5}$ $\frac{1}{7}\frac{0}{5}$ $\frac{3}{1}\frac{4}{5}\frac{5}{5}$ $\frac{1}{1}\frac{3}{5}$
(2) $6\frac{1}{12}$
(3) 4 times

D. (1) $18\frac{3}{8}$
(2) 2*s.*
(3) $2\frac{4}{17}$ days

E. (1) $13\frac{1}{3}$ days
(2) $210\frac{4}{9}$
(3) £8000

F. (1) $13\frac{1}{3}$ hours
(2) $15\frac{5}{9}$ times
(3) 15 days

G. (1) $7\frac{1}{12}$
(2) £43 15*s.*
(3) $\frac{3}{3}\frac{0}{0}\frac{0}{4}$

H. (1) 12 suits
(2) 18*s.* 4*d.*
(3) 24 feet

I. (1) £333 6*s.* 8*d.*
(2) $2\frac{7}{10}\frac{4}{5}$
(3) $\frac{4}{7}\frac{4}{7}\frac{4}{1}$

J. (1) £411 8*s.* $6\frac{1}{2}$*d.*
(2) £1 8*s.*
(3) £1623 19*s.* 6*d.*

K. (1) £1 19*s.*
(2) $\frac{3}{1}\frac{1}{0}\frac{1}{0}$
(3) $31\frac{5}{17}$ $8\frac{4}{17}$

Vulgar Fractions.

(a) $\frac{1}{2}$ $\frac{1}{10}$ $\frac{1}{4}$ $\frac{4}{5}$ $\frac{3}{10}$ $\frac{32}{5}$ $\frac{3}{10}$ $3\frac{1}{2}$ $14\frac{41}{100}$ $11\frac{1}{4}$

(b) $\frac{1}{25}$ $\frac{1}{100}$ $\frac{2}{5}$ $\frac{8}{100}$ $\frac{12}{5}$ $13\frac{1}{80}$ $8\frac{1}{40}$

(c) $\frac{3}{25}$ $\frac{3}{40}$ $\frac{87}{100}$ $23\frac{1}{20}$

(d) $\frac{3}{5}$ $\frac{31}{100}$ $\frac{17}{20}$ $\frac{12}{25}$ $\frac{7}{100}$ $\frac{8}{100}$ $31\frac{18}{40}$ $93\frac{1}{200}$

DECIMALS.

Decimals:

(a)

·5	·6	·375
·75	·625	·12
3125	4·02	1·6

(b)

·9	·75	·325
·55	·5625	·28
3·1	9·875	5·05

(c)

·875	·078125
·6875	·09
7·3	8·44

(d)

·12		
·22		
3·06		
·04	·25	·7
·575	·68	·95
9·3	1·28	3·225

ADDITION.

(a)	(b)	(c)	(d)
17·253	119·574	77·886	104·46
115·5445	139·6715	192·601	196·7207
77·0275	325·1053	16·805185	

SUBTRACTION.

(a)	(b)	(c)	(d)
18·936	3·6185	7·2705	18·91055
66·686	98·91675	19·10775	44·69585
25·49915	55·99103	27·0325	

MULTIPLICATION.

(a)	(b)	(c)	(d)
367·5	6588	1809	3241·2
764	2112·25	1180·25	6848·25
4·0255	527·625	92·5875	11·3125
49·43925	2504·5125	162·00525	101·5875
7·630625	169·67175	906·1812	4·115375
·0017625	·00000625	·0054375	·0006174

DIVISION.

(a)	(b)	(c)	(d)
1·4207	·5763125	·4290625	1·825375
50·69	22·51875	175·0625	602·5
12202	281·3	107	11·31724+
5·7	·078	·22	29·3
·52439+	·39584+	·57675+	·6098+
32476	3736·36+	·74934+	1·8523+

RECURRING DECIMALS.

Vulgar Fractions.

(a) $\frac{1}{3}$ $\frac{9}{11}$ $\frac{1}{3}$ $\frac{3}{11}$ $\frac{5}{33}$ $\frac{5}{33}$ $\frac{13}{33}$ $\frac{8}{11}$ $\frac{6}{11}$ $\frac{4}{33}$ $\frac{7}{33}$ $\frac{6}{11}$ $\frac{3}{13}$ $\frac{5}{13}$ $\frac{11}{30}$ $\frac{7}{45}$ $\frac{17}{45}$ $\frac{7}{13}$ $\frac{6}{55}$ $\frac{7}{18}$ $\frac{13}{45}$ $\frac{17}{45}$ $\frac{23}{45}$ $\frac{4}{9}$ $2\frac{77}{130}$ $5\frac{233}{180}$ $6\frac{49}{450}$ $5\frac{773}{495}$ $\frac{2033}{9900}$ $\frac{233}{333}$ $\frac{1043}{3330}$ $\frac{13}{825}$

Vulgar Fractions Expressed as Decimals.

(a) $\cdot\dot{1}$ $\cdot\dot{7}$ $\cdot\dot{6}$ $\cdot8\dot{3}$ $\cdot\dot{2}$ $\cdot\dot{3}$ $\cdot1\dot{6}$ $\cdot4\dot{5}$ $\cdot0\ddot{9}$ $\cdot\dot{5}$ $\cdot\dot{7}14285\dot{7}$ $\cdot1\dot{8}$ $\cdot05\dot{5}$ $\cdot4\dot{5}$ $\cdot1\dot{6}$ $\cdot6\dot{3}$ $\cdot692307\dot{}$ $\cdot22\dot{7}$ $\cdot8\dot{3}$ $\cdot3\dot{1}\dot{8}$ $\cdot4583\dot{}$ $\cdot857142\dot{}$ $\cdot4\dot{5}$ $\cdot\dot{4}$ $\cdot2037\dot{}$ $\cdot05\dot{}$ $\cdot5416\dot{}$ $\cdot1282057\dot{}$ $\cdot63\dot{}$ $\cdot714285\dot{}$ $\cdot846153\dot{}$ $\cdot32142857\dot{}$ $\cdot230769\dot{}$

(b) (c) (d)

$\cdot\dot{4}$ $\cdot2\dot{7}$ $\cdot857142\dot{}$ $\cdot41\dot{6}$

$\cdot05\dot{}$ $\cdot153846\dot{}$ $\cdot461538\dot{}$

$\cdot6428571\dot{}$ $\cdot3\dot{1}\dot{8}$ $\cdot4\dot{5}$ $\cdot13\dot{6}$

Simplification.

$\frac{1}{180}$ $\frac{13}{63}$ $2\frac{33}{70}$ $\frac{8}{11}$ $\frac{7}{143}$ $3\frac{1}{16}$ $1\frac{3}{4}$ $\frac{13}{60}$ $\frac{24}{55}$ $\frac{64}{875}$ $7\frac{3}{5}$ $\frac{170}{209}$

REDUCTION.

1 (a) 10*s.* 1*s.* 15*s.* 1*s.* 11*d.* £8 18*s.* 9*d.*

(b) 7*s.* 5*s.* 2*s.* 6*d.* £2 3*s.* £1 17*s.* 3*d.*

(c) 9*s.* 3*s.* 6*d.* 7*s.* 1*s.* 5·1*d.* £1 17*s.* 7·8*d.*

(d) 5*s.* 6*d.* £1 1*s.* £2 11*s.* 6*d.* £1 10*s.* 5·4*d.* £1 8*s.* 10½*d.*

2 (a) 1 cwt. 5 c. 2 q. 14 lbs. 5 yds. 9 in.

(b) 23 lbs. 14·592 oz. 3 t. 18 c. 2 q. 14 lbs. 94 lbs. 8 oz.

(e) 2 q. 14 lb. 7·168 oz. 1 c. 1 q. 7 lb. 11·2 oz. 3 m. 4 f. 11 p. 2·86 yds.

(d) 2 c. 16·8 lbs. 7 t. 10 c. 1 q. 25.76 lbs. 2 a. 3 r.

3 (a) ·9197916̇ ·1875 ·196̇428571̇

(b) ·55952380̇ ·089̇285714̇ ·875

(d) ·58194 ·359375 ·04745370

MISCELLANEOUS EXERCISES.

A. (1) 3*s.* 6*d.* B. (1) 2 dys. 2 hrs. 40 min. C. (1) 4*s.* 11·0625*d.*
(2) 75·15 (2) £6 9*s.* 3·825*d.* (2) 4 c. 2 q. 19·6 lb.
(3) £31 5*s.* 7½*d.* (3) 9·8 cwt. (3) £10 10*s.*

D. (1) 3*s.* 4*d.* E. (1) £36 16*s.* F. (1) £8000
(2) £12 1*s.* 8*d.* (2) $3\frac{4}{5}\frac{8}{9}$ days (2) 16*s.* 3*d.*
(3) 2·821 cwt. (3) £2895 12*s.* 3·6*d.* (3) $1\frac{3}{3}\frac{6}{1}\frac{9}{2}\frac{9}{0}$

G. (1) £5 H. (1) ·2364583 (12 times)
(2) $10970\frac{5}{9}$ (2) £2000
(3) $30\frac{8}{7}\frac{8}{5}$ yards (3) £5 1*s.* 3*d.*

COMPOUND PROPORTION.

A. (1) 77½ a. B. (1) £7 10*s.* C. (1) £12 4*s.* 9¾*d.*
(2) £364 11*s.* 8*d.* (2) 8 hours (2) £12 3*s.* $0\frac{3}{4}$*d.*
(3) 120 men (3) £71 1*s.* 10½*d.* (3) 71⅓ yds.

D. (1) 166⅔ yds. E. (1) £11 1*s.* $6\frac{6}{1}\frac{6}{3}$*d.* F. (1) 8*s.* 7⅛*d.*
(2) £147 6*s.* 5½*d.* (2) £395 16*s.* 8*d.* (2) 16000 bricks
(3) 150 miles (3) £16 13*s.* 4*d.* (3) 3⅜ lbs.

G. (1) 843¾ lbs. H. (1) 234 yds. I. (1) 40 men
(2) £81 (2) 51 t. 3 c. 3 q. (2) 83⅓ a.
(3) 108 galls. (3) £192 (3) £37 4*s.*

J. (1) $255\frac{5}{7}\frac{5}{6}$ yds. K. (1) 812½ feet L. (1) 156¼ yds.
(2) £21 1*s.* 10½*d.* (2) $14\frac{7}{1}\frac{7}{2}$ dys. (2) 1250 lbs.
(2) $99\frac{5}{1}\frac{5}{0}$ yds. (3) £250 (3) £93 6*s.* 8*d.*

M. (1) 39 a. 1 r. 20 p. N. (1) £144
(2) £6 8*s.* 6$\frac{4}{7}$*d.* (2) 24 dys. 3 hrs.
(3) £91 2*s.* 11*d.* (3) £518 11*s.* 5½*d.*

The Answers to the examples in Standards I., II., III., IV., and V. of this series of Arithmetics can be tested without reference to this Key by observing that the sum of the digits in the answer line is 10, or some number of 10's, when the sum is correct. In Division the remainder must always be included, and in all the Compound rules the numerator and denominator of the fractional parts of a penny.

